

CLIMATOLOGICAL DATA

PRECIPITATION PROVO STATION 1916.

Compiled from U.S. Weather Bureau Reports.

Date	Depth.	Date	Depth
April 2,	.02	July 13,	.04
" 12,	.03	" 17,	.01
" 18,	.06	" 21,	.04
" 19,	.28	" 24,	.06
		" 27,	.50
Total	0.39 in.	Total	1.17 in.
			$28 = 0.47$

May 14,	.11	August 5,	.33
" 19,	.23	" 6,	.11
" 22,	.04	" 8,	.05
		" 13,	.04
		" 15,	.01
Total	0.28 in.	" 16,	.13
		Total	0.67 in.
June 1,	.08	Sept. 2,	.02
" 21,	.13	" 9,	.05
		" 10,	.06
Total	0.21 in.	" 23,	.79
		Total	0.92 in.

Total for the six months above; ~~six months~~ = 3.64 inches.

PRECIPITATION HEBER STATION 1916.

Compiled from U.S. Weather Bureau Reports.

Date	Depth.	Date	Depth
April 1,	.04	Aug. 4,	.55
" 3.	.25	" 5,	.22
" 5,	.05	" 6,	.26
" 12,	.10	" 13,	.05
" 19,	.10	" 16,	.20
" 21,	.20	" 29,	.10
Total	0.74 in.	" 30,	.04
		Total	1.45 in.
May 22,	.10	Sept. 1,	.08
Total	0.10 in.	" 7,	.05
June 1,	.08	" 8,	1.05
" 21,	.005	" 22,	.25
Total	0.13 in.	Total	1.43 in.
July 14,	.05		
" 15	.10		
" 16	.65		
" 27	.25		
Total	1.05 in.		

Total of the above six months = 8.54 inches.

TABLE OF PRECIPITATION THE YEAR
OCTOBER 1915 TO OCTOBER 1916.

Month 1915	Heber Station			Provo Station.		
	Nor mal	Total Prec.	Dep.	Nor mal	Total Prec.	Dep.
October	1.34	.05	-1.29	1.24	T	-1.24
November	1.36	.22	-1.14	1.11	T	-1.11
December	1.70	1.62	-0.08	1.54	1.28	-0.26
1916						
January	2.46	4.06	*1.60	1.53	3.52	*1.99
February	2.01	1.95	-0.06	1.50	2.33	*0.83
March	2.32	3.45	*1.13	1.74	3.34	*1.60
April	1.28	0.74	-0.54	1.40	0.39	-1.01
May	1.57	0.10	-1.47	1.75	0.38	-1.37
June	0.56	0.13	-0.43	0.73	0.21	-0.52
July	0.77	1.05	*0.28	0.30	1.17	*0.87
August	1.00	1.45	*0.45	0.60	0.67	*0.07
September	1.09	1.43	*0.34	0.76	0.92	*0.16
Totals	17.46	16.25	-1.21	14.20	14.21	*0.01

All depths in inches.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

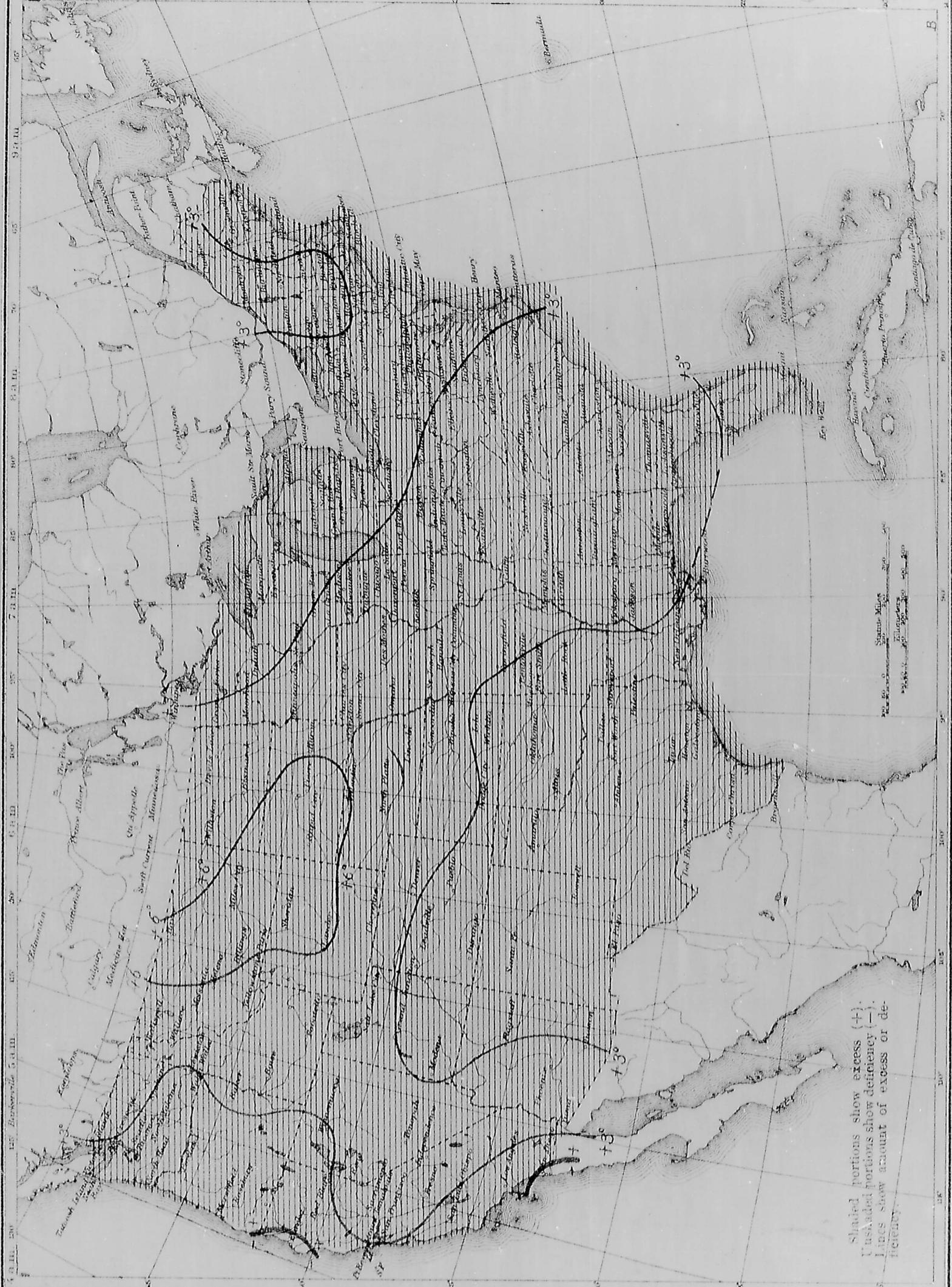
OCTOBER, 1915

BY
ALFRED H. THIESSEN
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
NOVEMBER 19, 1915

3



Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Section Director.

VOL. XVII. SALT LAKE CITY, UTAH, OCTOBER, 1915. No. 10.

GENERAL SUMMARY.

October was one long Indian Summer, being warm, very dry, and having very few strong winds. Many stations reported no rain, and without doubt the month was the driest October at most places in the State since the beginning of the Climatological Service in this State. For the State as a whole the average precipitation was the lowest since 1891, and very considerably lower than that of October last year. The temperature averaged above normal, but was not so high as that of October, 1914.

The weather was ideal for what harvesting was done; but not advantageous for plowing, planting, and germinating of fall sown grain, the ground being too dry and hard. Many observers reported ranges and pastures dried up.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 30.07 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.41 inches at Salt Lake City on the 25th. The lowest was 29.64 inches at Modena on the 10th.

TEMPERATURE.

The monthly mean temperature for the State as determined from 68 stations was 50.2° , which is 1.6° above the normal. The temperature was unusually uniform during the month; while there were some quite warm days, none were unseasonably cold. Of those stations having a record of 10 years or more, only four reported monthly means below normal. The greatest plus departure was 4.7° at Scipio, whose monthly mean was 49.6° ; and the greatest minus departure was 1.9° at Corinne, whose monthly mean was 49.3° . The highest monthly mean was 59.6° at St. George, and the lowest was 39.0° at Scofield. As a rule the maximum temperatures occurred during the first decade, usually on the 8th or 9th, the highest being 98° at St. George on the 31st. The minimum temperatures occurred on various dates from the 12th to the 26th, the lowest being 10° at Scofield on the 13th. Nearly every station reported minimum temperatures below 32° , but no damage was done.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 44 per cent, and at 6 p. m. 31 per cent. At Modena at 6 a. m. it was 48 per cent, and at 6 p. m. 20 per cent.

PRECIPITATION.

The precipitation for the State averaged 0.19 inch, which is 0.83 inch below normal. There were 42 stations that reported no rain or only a trace for the entire month. The greatest monthly amount was 2.90 inches at Trout Creek Ranger Station; and the greatest in 24 hours was 1.70 inches at the same

station. Most of the precipitation occurred on the 14th and 15th. There were a few scattered showers previous to but practically none subsequent to these dates. The snowfall for the State averaged only 0.1 inch, but many observers reported that mountain peaks within sight of their stations were covered.

WIND.

The prevailing direction of the wind for the State was from the south. The average velocity at Salt Lake City was 6.9 miles per hour; the highest 36 miles per hour from the north on the 10th; and the prevailing direction from the southeast. At Modena the average velocity was 9.6 miles per hour; the highest 39 miles per hour from the south on the 9th; and the prevailing direction from the west.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 84 at Salt Lake City, and 90 at Modena.

For the State the average number of clear days was 24; partly cloudy, 4; and cloudy, 3.

NOTE:—The name of Baker Ranger Station was changed to Monticello Ranger Station. There was no change in the location of instruments.

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.			Average precipitation.	Total snowfall.	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891	49.7	90	12	0.15	.....	1	.....	.....	.....
1892	48.3	92	7	1.08	.1	4	10	5	7 SW.
1893	40.9	92	5	0.29	.1	2	10	7	5 SW.
1894	49.8	94	9	0.47	T.	3	10	7	4 SW.
1895	49.2	95	10	0.56	.1	3	22	5	4 SW.
1896	51.0	94	13	1.61	.6	3	19	7	5 SW.
1897	47.8	86	7	2.18	1.5	8	13	8	10 SW.
1898	47.0	90	8	0.67	.8	3	20	7	4 SW.
1899	45.6	96	9	1.50	3.2	5	14	8	9 SW.
1900	48.0	95	-1	0.87	2.0	5	18	7	6 SW.
1901	51.7	93	5	1.04	T.	4	18	7	6 SW.
1902	50.0	91	8	0.28	T.	2	21	6	4 SW.
1903	50.3	97	6	0.89	T.	3	24	8	4 N.
1904	48.7	97	7	0.92	.2	3	23	5	3 W.
1905	46.4	99	0	0.36	1.4	2	24	4	3 SW.
1906	48.4	98	6	0.34	2.0	2	21	5	5 N.
1907	52.5	90	17	1.45	.2	6	18	10	8 SW.
1908	44.8	94	-5	2.22	9.8	6	17	5	9 SW.
1909	60.8	91	6	0.42	.8	2	19	8	4 SW.
1910	49.7	96	8	1.51	.3	5	19	6	5 N.
1911	45.2	89	4	1.08	.2	3	21	6	4 N.
1912	46.0	85	0	3.17	5.9	8	13	7	11 S.
1913	46.5	87	5	0.67	.2	2	17	7	7 N.
1914	51.5	90	16	1.47	.8	5	18	6	7 S.
1915	50.2	93	10	0.10	0.1	1	24	4	3 S.

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.9 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
1915.	1st	+5.6	+5.7	+6.0	+6.2	+6.3	+6.3	+6.0	+5.5	+5.0	+4.7	.....	.....

Climatological Data for October, 1915.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.				Precipitation, inches.				Number of days			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total Snowfall, unmeasured.	With precipitation 0.01 inch or more.	Partly cloudy.	Cloudy.			
Alton.	Kane.	6,000	12															
Beaver.	Beaver.	6,372	10	49.9 + 3.0	86	1+	15	23	65	0.86	-0.33	0.86	0	1	22	3	n.	
Black Rock.	Millard.	6,000	7	53.0	74°	2+	31	12	34°	T.	0	0	27	2	2	s.		
Blanding.	San Juan.	4,200	2															
Bluff.	Boxelder.	4,305	2	54.4	84	9	29	24	48	0.03		0.03	0	1				
Brigham City.	Sevier.	6,300	3															
Burryville.	Emery.	5,500	15		80	3+					0.05	-0.75	0.05	0	1	30	0	1
Castle Dale.	Tooele.	5,750	10															
Cedar City.	Boxelder.	4,250	3															
Center.	Boxelder.	4,240	44	49.3 - 1.9	77	22	23	18†	48	0.00	-1.10	0.00	0	0	22	7	2	
Corinne.	Millard.	4,541	19	51.2 + 2.1	84	8	20	12	57	0.13	-0.52	0.13	0	1	26	3	2	
Deseret.	Duchesne.	5,515	7	46.8	74	1+	22	7†	47	0.10		0.10	0	1	23	5	3	
Duchesne.	Wasatch.	7,650	2	40.1	77	2	17	25	52	0.20		0.10	1.0	0	3	22	5	4
East Portal.	Utah.	4,650	12	62.0 + 1.8	81	9	24	12†	50	0.21	-0.71	0.21	0	1	26	3	2	
Emery.	Emery.	6,200	13	50.6 + 4.7	81	2	21	53	T.	-0.60			0	0	7	11	13	
Farmington.	Davis.	4,268	18	50.5 + 0.9	78	22	29	25	38	0.00	-1.48	0.00	0	0	28	3	0	
Ft. Duchesne.	Millard.	5,100	22	55.4 + 2.8	86	8	27	25	50	0.35	-0.77	0.35	0	1				
Fruitland.	Uinta.	4,941	26	49.2 + 2.5	77†	2	21†	27	46†	0.04	-0.54	0.04	0	1	22†	4†	1†	
Garland.	Boxelder.	4,248	2	49.2	78	9	26	25	46	0.20		0.09	0	3	24	3	4	
Garrison.	Millard.	4,850	10															
Government Creek.	Tooele.	5,277	18	52.8 + 3.9	81	8	27	26	41	0.04	-0.87	0.02	T.	2	22	9	0	
Green River.	Emery.	4,080	14	52.6 - 0.1	89	2	24	26†	54	0.00	-0.58	0.00	0	0	27	3	1	
Hanksville.	Wayne.	4,200	3															
Heber.	Wasatch.	5,593	21	46.5 + 1.4	76	1†	18	4	56	0.05	-1.29	0.05	0	1	25	2	4	
Henefer.	Summit.	5,301	14	46.1 + 1.1	80	8†	16	24	61	0.07	-1.17	0.07	T.	1	25	3	3	
Ibapah.	Tooele.	7,600	9	48.3	83	8	15	25	57	0.04		0.04	0	1	28	3	0	
Josepa.	Kane.	4,356	8											0	31	0	0	
Kanab.	Boxelder.	4,925	6															
Kelton.	Boxelder.	4,230	34	47.4 - 1.6	77	9†	21	12†	47	0.16	-0.88	0.16	0	1	18†	11†	0†	
Le Sal.	San Juan.	7,000	11	49.8 + 3.5	71	2†	26	12	34	0.00	-0.97	0.00	0	0	24	7	0	
Leeds (near).	Washington.	8,400	2															
Lehi.	Boxelder.	4,550	1	62.2	81†	9	24†	25	52†	0.00		0.00	0	0	31	0	0	
Lemay.	Levi.	4,221	3	62.3	78	1†	28	25	44	0.00		0.00	0	0	20†	1†	3†	
Levall.	Juab.	5,010	24	51.0 + 3.7	78	9	26	44	43	0.36	-0.89	0.36	0	1	28	1	2	
Logan.	Cache.	4,507	23	52.4 + 2.7	76	9	29	12†	46	0.05	-1.32	0.05	0	1	23	7	1	
Low.	Tooele.	4,602	3	40.8	70	7	21	20†	38	0.02		0.02	0	1	22	6	3	
Lower American Fork.	Utah.	5,003	1	54.4	79	21	35	11†	36	0.04		0.04	0	1	28	3	0	
Lower Mill Creek.	Salt Lake.																	
Lucin.	Boxelder.	4,604	7	46.6	78	1†	20	10	58	0.00		0.00	0	0	20	6	5	
Manila.	Uinta.	6,226	4	49.6	80*	12	22	7	52*	1.10		1.10	0	1	21	7	3	
Manti.	Sanpete.	5,575	19	49.0 + 2.3	70	8	21	12	50	0.43	-0.57	0.43	T.	1	19	2	10	
Marysville.	Platte.	6,180	18	48.2 + 1.0	81*	8	18*	12	58*	0.66	-0.19	0.66	0	1	23*	1*	2*	
Meadowville.	Ritch.	6,200	18	45.5 + 2.4	73	9	23	28	44	0.18	-1.22	0.15	0	2	27	1	3	
Midlake.	Boxelder.	4,235	8	55.8	68	9†	43	11	18	0.00		0.00	0	0	17	13	1	
Midvale.	Salt Lake.	4,365	2	56.0	87	23	22	25	60	T.	T.	T.	0	0	26	3	2	
Millford.	Beaver.	4,962	6		81*	1†							0	0	18*	4*	4*	
Moab.	Grand.	4,000	24	51.2 + 0.7	85	2†	20	20†	50	0.14	-0.70	0.14	0	1	24	4	3	
Modena.	Iron.	5,479	13	50.7 + 0.6	82	8	22	12	49	0.07	-0.75	0.07	0	2	26	2	3	
Monticello.	San Juan.	7,050	6															
Morgan.	Morgan.	5,068	10															
Moroni.	Sanpete.	6,000	6	52.3	80†	8	27†	12†	45†	1.04		1.04	0.2	1	18	10	3	
Mosida.	Utah.	4,510	2	60.0	80	9	26	12†	50	0.00		0.00	0	0	26	4	1	
Mountain Home.	Duchesne.	6,000	1	50.7	77†	4†	29*	11†	48*	0.09		0.05	0.5	2	26*	0*	2*	
Nephil (near).	Juab.	6,110	9	51.6	82	8	21	12	49	0.49		0.49	0	1	19*	6*	2*	
Oak City.	Millard.	4,900	7															
Ogden.	Weber.	4,810	43	54.8 + 2.8	83	22	30	12†	41	0.00	-1.32	0.00	0	0	29	2	0	
Panguitch.	Garfield.	6,580	2	48.8	73	8†	18	19†	57	0.00		0.00	0	0	25	6	0	
Pine View.	Summit.	7,000	14															
Pluto.	Washington.	6,907	16	45.8 + 1.4	80†	1	18†	18†	61	0.10	-1.42	0.10	0	1	28*	2*	0*	
Price.	Carbon.	5,557	3															
Provo.	Utah.	4,582	20	51.5 + 1.5	84	8	22	25	57	1*	-1.24	T.	0	0	27	4	0	
Richfield.	Sevier.	5,350	20	51.0 + 4.0	89	8	21	12	63	0.20	-0.61	0.20	0	1	26	5	0	
Riverville.	Washington.	4,810	1	53.1	80	9†	30	12†	40	T.	T.	T.	0	0	26	3	3	
Saltair.	Salt Lake.	2,880	27	56.6 + 0.9	81	8†	30	10†	63	0.04	-0.60	0.04	0	1	25	0	6	
SALT LAKE CITY.	Salt Lake.	4,220	11	52.8 + 2.4	73†	9†	34†	25	25†	0.00	-1.24	0.00	0	0				
Santaquin.	Utah.	4,360	40	56.8 + 4.1	82	9	37	12	32	0.01	-1.30	0.01	0	1	24	3	4	
Sigdo.	Millard.	5,200	19	49.6 + 4.7	83	8†	15	26	68	0.20	-1.19	0.20	0	1	24	3	4	
Scifield.	Carbon.	7,025	5	59.0	70	8	10	13	56	0.00		0.00	0	0	10	2	10	
Snake Creek.	Wasatch.	5,950	1	45.3	75	22	18	25	52	0.10		0.10	0	1	25	3	3	
Snowville.	Boxelder.	12	47.4 + 0.2	78	5	15	14†	55	0.00	-1.16	0.00	0	0	30	0	1		
Spanish Fork.	Utah.	4,585	6	56.3	84	8†	30	25	46	0.00		0.00	0	0	28	1	2	
Springdale.	Washington.	3,600	6															
Standrod.	Boxelder.	6,000	9	50.4	78	8	26	24	40	0.04		0.04	0.5	1	30	0	1	
Teasdale.	Wayne.	7,000	15	47.3 + 0.7	74	1	18	13	44	0.32	-0.26	0.32	1.5	2	11	16	4	
Thompson.	Utah.	5,075	20	46.8 - 1.8	84	21	15	25	63	T.	-0.73	T.	0	0	26	3	2	
Tooele.	Grand.	5,150	2	56.0	78	12	36	19	35	0.00		0.00	0	0	31	0	0	
Tremonton.	Tooele.	4,000	18	54.2 + 4.1	83	9	32	24†	40	0.10	-1.42	0.10	T.	1	16	11	4	
Tropic.	Boxelder.	4,250	1	49.6	79	22	26	12†	44	0.11		0.11	0	1	24	4	3	
University of Utah.	Garfield.	7,000	17	50.6 + 3.0	81	9	25	19	50	0.00	-0.98	0.00	0	0	24	6	1	
Utah Experiment Station.	Salt Lake.	4,500	1	48.0	81	9†	20	25	47	0.00		0.00	0	0	27	4	0	
Vernal.	Sanpete.	8,700	43	48.6	66	8	19	12										

Daily Precipitation for October, 1915.

CLIMATOLOGICAL DATA: UTAH SECTION

OCTOBER, 1915.

Daily Temperatures for October, 1915.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
Black Rock.....	86	84	65	66	73	78	80	85	86	77	64	62	69	67	58	65	68	74	79	82	81	80	78	66	62	77	73	75	80	74	70	73.9	
	Maximum 25	40	24	20	21	20	22	23	21	46	30	16	19	42	37	31	27	25	29	26	25	20	15	37	19	19	25	22	19	33	25	25	25.9
Blanding.....	65	74	67	62	63	71	72	74	73	70	65	59	91	57	58	59	65	68	70	72	70	70	67	69	73	70	73	70	73	70	73	67.2	
Burrville.....	Maximum 42	43	38	34	33	37	39	45	45	45	40	31	32	42	36	36	35	35	37	40	42	43	34	40	37	39	41	44	37	43	40	38.9	
Castle Dale.....	Maximum 70	71	80	80	79	80	71	72	75	74	75	72	80	70	69	70	65	67	68	71	67	68	72	75	71	71	75	67	72	70	72.4		
Corinne.....	Maximum 72	65	63	67	62	65	66	69	76	78	70	56	55	60	62	63	67	69	68	71	72	77	73	71	64	68	68	67	66	67	63	66	69
Deseret.....	Maximum 83	82	68	67	69	75	78	84	82	82	72	65	66	67	62	66	69	72	77	80	81	79	76	69	64	74	78	77	77	73	70	73	0
Duchesne.....	Maximum 74	77	61	57	63	68	63	67	74	71	60	58	60	57	51	58	61	62	68	68	68	68	67	63	61	62	67	66	65	70	66	64.5	
Elberta.....	Maximum 79	78	62	62	67	69	71	80	81	76	70	68	62	64	69	72	74	80	80	78	73	60	62	75	70	76	73	66	70	74	29.0		
Emery.....	Maximum 34	41	34	33	28	31	27	30	39	49	36	24	30	39	36	32	30	29	36	31	33	36	45	38	24	38	34	30	32	44	33	37	3.7
Emery.....	Minimum 35	34	41	30	35	38	30	37	32	31	35	25	21	32	29	22	28	30	31	30	32	35	31	36	28	23	29	30	31	30	31	30	31.2
Fillmore.....	Maximum 73	82	65	64	72	77	80	80	82	72	58	64	67	66	56	65	69	73	77	81	82	80	74	65	65	80	81	76	78	75	71	72.8	
Ft. Duchesne.....	Maximum 73	77	72	69	69	71	68	67	70	74	64	61	60	61	55	61	64	66	67	69	71	71	73	65	66	41	37	46	41	37	46	37.6	
Fruitland.....	Maximum 75	81	62	60	61	65	75	76	78	79	60	61	60	59	60	62	68	71	72	73	70	70	67	71	72	70	76	73	66	70.4			
Government Creek.....	Maximum 74	73	59	51	66	68	71	81	79	70	58	57	63	58	59	60	65	70	71	75	78	77	74	67	61	70	72	69	74	68	62	67.6	
Green River.....	Maximum 43	45	31	34	32	38	35	40	50	45	28	35	35	39	30	33	34	37	45	48	46	41	46	35	37	39	37	39	46	36	38.1		
Henefer.....	Maximum 80	89	82	70	70	78	75	83	81	71	66	68	67	65	63	70	72	74	75	77	77	74	72	73	75	75	75	74	74	71	71.1		
Ibapah.....	Maximum 75	75	54	55	64	68	71	80	79	66	60	58	58	64	65	65	70	72	75	79	80	76	65	66	73	77	77	72	61	56	68.2		
Kanab.....	Maximum 82	76	61	64	75	78	74	83	79	74	69	62	67	64	62	64	70	75	76	81	81	79	75	76	63	63	74	77	74	72	67	71.8	
Kelton.....	Maximum 30	40	21	22	22	19	21	20	30	34	27	13	29	27	26	21	23	21	33	26	27	25	29	30	22	21	21	21	21	21	21	21	20.7
Le Sal.....	Maximum 65	71	64	58	55	62	65	68	71	63	61	50	56	55	54	53	55	60	62	65	68	70	62	59	66	69	71	67	67	60	62.7		
Leeds (near) §§.....	Maximum 38	45	39	32	31	34	35	40	46	41	34	26	30	40	37	31	32	31	34	35	41	40	42	30	32	36	35	38	37	35	39.5		
Lemay.....	Maximum 49	52	51	48	46	48	52	53	45	44	46	42	42	50	41	46	46	45	46	46	45	44	43	44	48	46	47	49	46	48	47	46.5	
Levan.....	Maximum 78	77	78	70	73	73	75	76	75	65	65	62	60	62	60	62	65	68	70	75	73	72	72	73	72	78	68	65	64	63	69.0		
Logan.....	Maximum 76	77	57	59	65	68	72	77	78	72	61	50	59	56	59	61	61	69	73	72	76	75	64	59	72	78	72	76	70	64	67.3		
Low §§.....	Maximum 45	42	41	40	36	39	38	41	46	46	36	33	39	35	39	34	37	35	37	35	37	35	36	38	34	38	34	38	36	38	34.8		
Lucin.....	Maximum 62	60	52	56	52	57	50	65	53	52	50	50	42	55	52	55	52	60	62	64	60	40	42	40	54	45	60	58	42	50	52.2		
Manila.....	Maximum 38	38	39	32	32	28	32	32	34	41	58	34	27	30	41	35	32	32	31	37	35	41	40	42	30	32	36	35	38	37	35	39.9	
Manti.....	Maximum 71	77	59	56	61	68	71	74	76	70	62	58	60	57	57	62	64	67	70	72	73	73	74	70	60	66	72	78	69	72	78.4		
Meadowville.....	Maximum 29	37	33	28	24	28	27	30	35	43	30	21	25	42	30	25	27	28	32	33	31	36	33	32	25	30	29	28	32	30	30.0		
Milford.....	Maximum 30	34	51	53	57	68	67	73	71	61	50	53	58	53	50	57	60	60	61	64	68	72	69	52	64	67	61	57	68	60	60.0		
Milford.....	Minimum 81	80	80	73	79	80	76	78	73	62	58	65	65	65	60	65	70	70	72	73	72	73	72	70	70	70	70	70	70	70	70.1		
Moab.....	Maximum 78	86	68	69	71	76	75	77	84	85	59	63	65	66	69	65	68	70	72	73	73	76	78	77	72	72	72	72	72	72	72.7		
Modena.....	Maximum 43	42	40	36	35	34	33	33	38	46	33	31	35	40	31	33	32	35	36	33	32	35	31	30	31	31	32	34	35	36	35.6		
Monticello.....	Maximum 60	64	64	65	71	78	80	82	71	54	60	60	63	60	65	60	65	62	70	78	75	75	75	75	75	75	75	75	75	75	75.0		
Moroni.....	Maximum 77	78	65	62	62	64	66	70	74	75	53	57	60	62	60	62	64	65	67	69	70	72	74	75	75	75	75	75	75	75	75.0		
Mosida.....	Maximum 77	78	65	62	62	64	66	70	74	75	53	57	60	62	60	62	64	65	67	69	70	72	74	75	75	75	75	75	75	75	75.0		
Ogden §§.....	Maximum 34	40	36	34	30	32	28	31	40	38	36	29	30	29	25	33	31	29	30	32	31	30	32	31	33	31	33	30	31	30.9			
Panguitch.....	Maximum 42	48	38	42	35	35	33	37	45	49	33	30	37	42	45	40	35	36	42	40	41	42	40	38	37	36	33	32	31	30	31.9		
Parowan.....	Maximum 80	77	72	65	70	78	75	82	84	77	70	67	62	61	48	60	66	70	76	78	74	75	77	77	77	77	77	77	77	77	77.0		
Pinto.....	Maximum 36	41	38	29	30	34	35	40	48	38	31	26	28	41	32	34	31	32	34	38	40	42	35	31	29	36	30	37	38	35	35.1		
Provo.....	Maximum 70	78	66	67	67	70	76	84	82	80	74	60	62	64	66	67	68	71	75	80	82	80	82	80	82	80	82	80	82	80			
Richfield.....	Maximum 86	84	70	68	78	76	79	80	86	77	56	58	60	64	68	68	70	72	77	77	77	77	77	77	77	77	77	77	77	77.4			
St. George.....	Maximum 88	88	80	88	76	78	85	89	92	90	83	74	72	75	76	78	75	76</															

LAWRENCE & WELCH, INC., PETITIONERS, v. THE STATE OF KANSAS, ET AL.



Daily Precipitation for October, 1915.

Continued from page 83.

Stations.	Day of month.																													Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Richfield																																0.20
Richmond	..																															0.13
Riverdale																																T.
Sahara																																0.00
St. George	(C)																															0.04
Saltair																																0.00
SALT LAKE CITY ***																																0.01
Santaquin																																0.32
Scipio																																0.20
Scofield	(C)																															0.00
Silver City																																0.05
Silver Lake																																0.10
Snake Creek	|||																															0.00
Snowville																																0.00
Spanish Fork																																0.00
Springdale	(C)																															0.16
Standrod																																0.04
Sunnyside	(C)																															T.
Teasdale	(C)																															0.32
Thistle																																T.
Thompson	(C)																															0.00
Tooele																																0.10
Tremonton	|||																															0.11
Tropic	(C)																															0.00
Trot Creek Ranger	(C)																															2.90
University of Utah																																0.00
Utah Experiment Station																																0.11
Vernal	(C)																															0.17
Victor	(C)																															0.00
Watson (near)	(C)																															0.22
Wendover																																0.00
Whiskey Creek	|||																															0.00
Winder																																0.01
Woodruff																																0.10
Woodside	(C)																															0.00

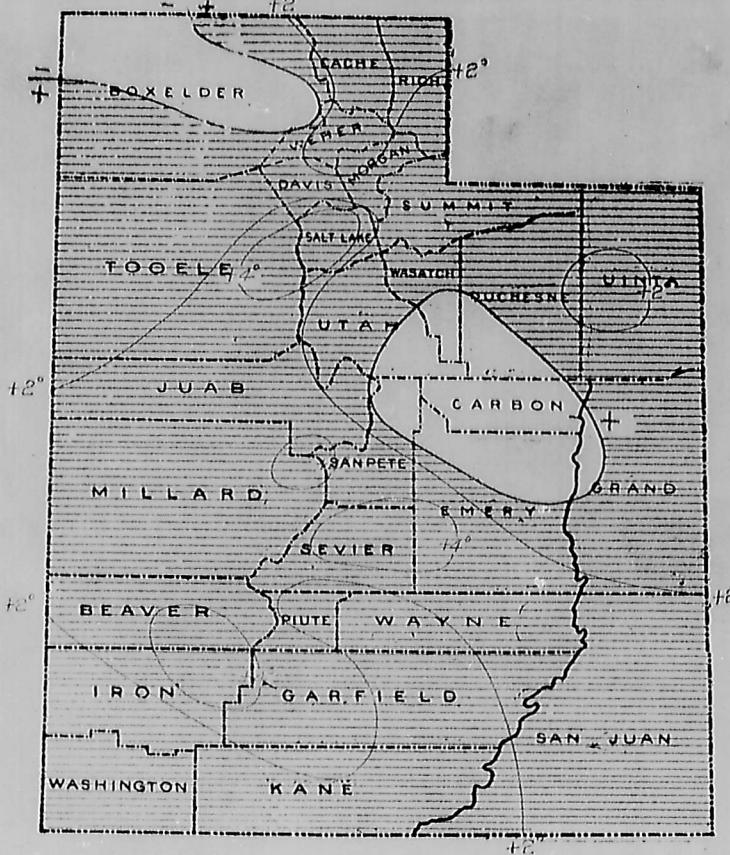
Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

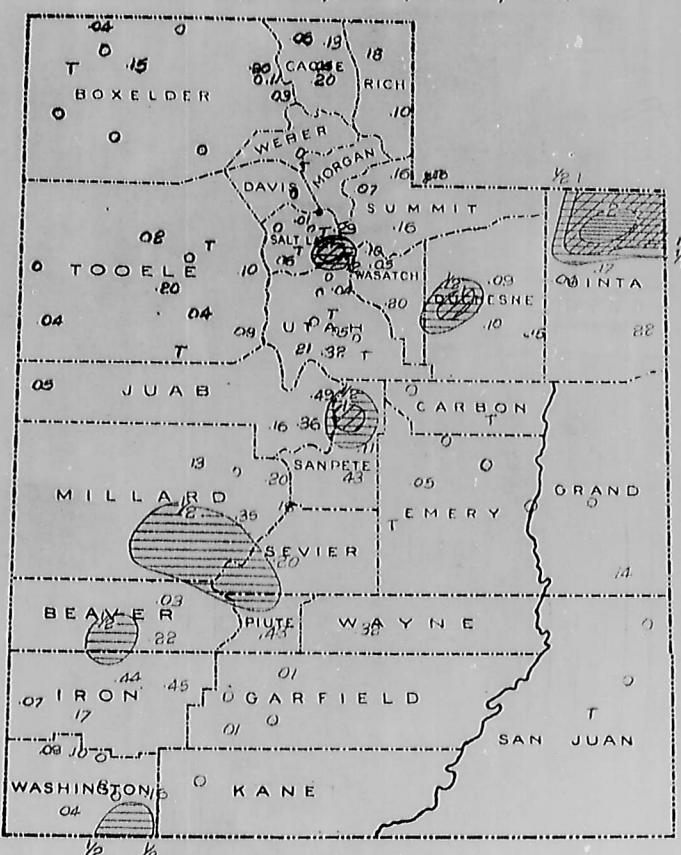
*** Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight.

* Precipitation included in the next following measurement. † Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow. All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

Departure of Mean Temperature from the Normal, October, 1915.



Total Precipitation, inches, October, 1915.



SCALE OF SHADES—IN INCHES.

	Less than 1-2		1-2 to 1		1 to 2		2 to 3		Over 8.
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U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

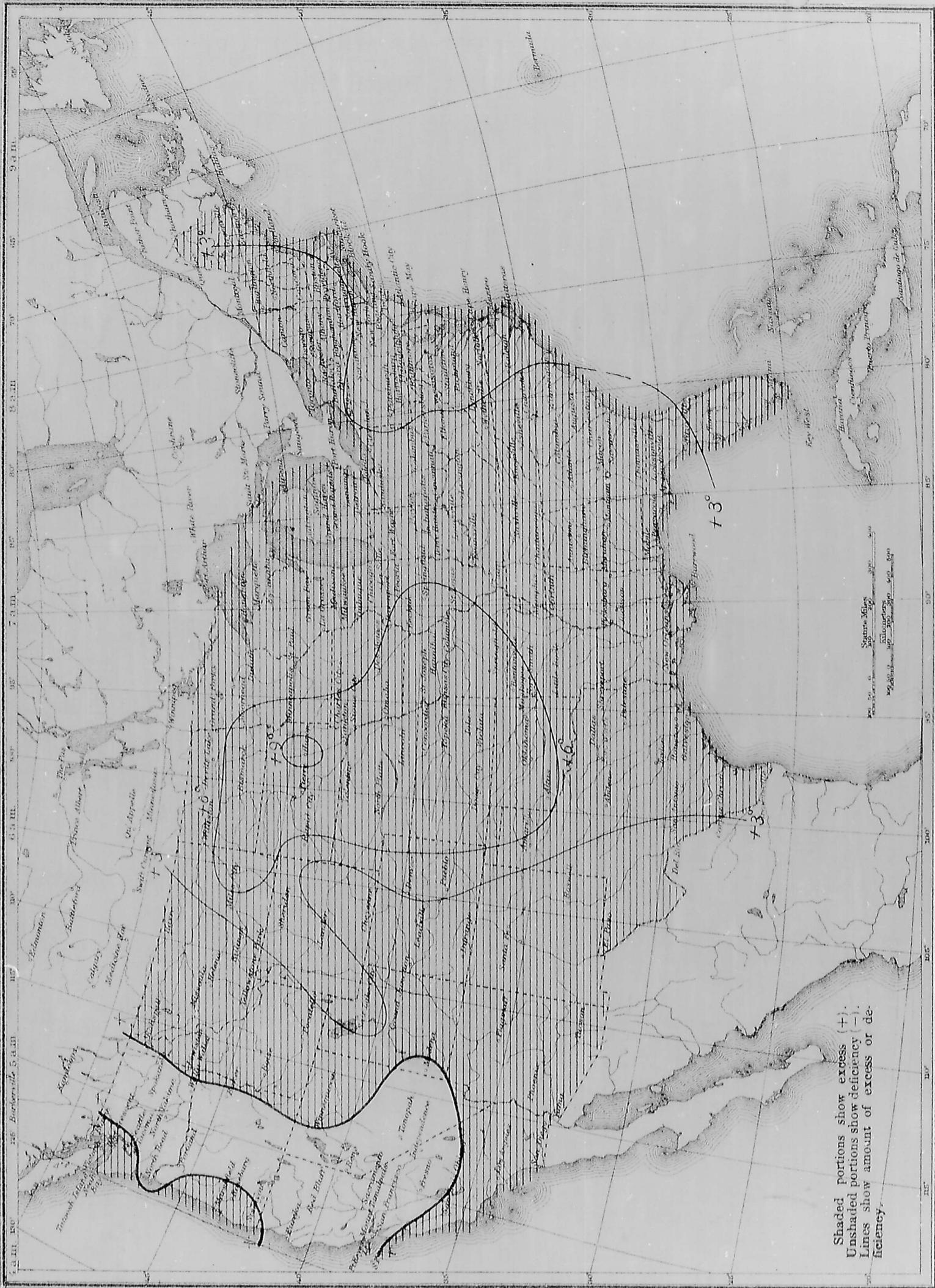
UTAH SECTION

NOVEMBER, 1915

BY
ALFRED H. THIESSEN
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
DECEMBER 20, 1915



Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Section Director.

VOL. XVII. SALT LAKE CITY, UTAH, NOVEMBER, 1915. No. 11.

GENERAL SUMMARY.

November was nearly a normal month in regard to temperature, but the precipitation was above normal. The snow cover was very light in the valleys, but considerable fell in the mountains. Some plowing was done and also other outside work as the weather was very favorable. Some apprehension was felt for fall-sown wheat as the snow cover was light. Sunshine was deficient. Compared with November of last year, the temperature for the present month averaged lower, but the precipitation was greatly in excess.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 30.09 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.54 inches at Salt Lake City on the 17th. The lowest was 29.42 inches at Salt Lake City on the 24th.

TEMPERATURE.

The monthly mean temperature for the State as determined from 74 stations was 38.0° , which is 0.1° above the normal. There were no periods of pronounced cold weather, and as a rule the temperature conditions were advantageous to all lines of activity. The local mean temperatures ranged from 49.6° at Springdale to 26.6° at Scofield. Nearly every station east of the Wasatch divide reported mean monthly temperatures below normal; but those west of this divide, except in the northwestern part of the State and extreme western portion of Iron County, reported average temperatures above normal. The greatest plus departure was 10.0° at Black Rock, whose mean was 47.8° ; and the greatest deficiency was 3.1° at Snowville, whose mean was 33.4° . The maximum temperatures for the month occurred usually from the 1st to the 5th, the highest being 79° at Black Rock on the 4th. The minimum temperatures were observed from the 18th to the 16th and from the 25th to the 28th, the lowest being -15° at Scofield on the 26th.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 58 per cent, and at 6 p. m. 58 per cent. At Modena at 6 a. m. it was 65 per cent, and at 6 p. m. 35 per cent.

PRECIPITATION.

The precipitation for the State averaged 1.18 inches, which is 0.27 inch above normal. Nearly every station having ten or more years of record reported amounts above normal. The local monthly amounts ranged from a trace at two stations to 3.87 inches at Farmington. The greater amounts fell from the 6th to the 10th, during which period the precipitation was quite general. Lighter amounts fell on the 16th, 24th, 26th, 30th and adjacent dates. For November the distribution of rain-

fall was less even than usual for this month. The larger amounts fell, as a rule, at the more elevated stations, but in a few notable instances there were unusually large amounts reported at lowland stations, as for instance, 2.44 inches at Beryl and 3.87 inches at Farmington. The greatest 24-hour amount was 1.39 inches at Moroni on the 7th. There was an average of only 3.6 inches of snow recorded, but much heavier amounts were reported in the mountains.

WIND.

The prevailing direction of the wind for the State was from the south. The average velocity at Salt Lake City was 6.9 miles per hour; the highest 39 miles per hour from the northwest on the 16th; and the prevailing direction from the southeast. At Modena the average velocity was 10.6 miles per hour; the highest 46 miles per hour from the south on the 9th; and the prevailing direction from the west.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 50 at Salt Lake City, and 61 at Modena.

For the State the average number of clear days was 12; partly cloudy, 7; and cloudy, 11.

COMPARATIVE DATA FOR NOVEMBER.

Year.	Temperature.			Average precipitation.	Total rainfall. (0.01 inch or more).	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.			Clear.	Partly Cloudy.	Cloudy.	
1891	41.1	80	6	0.21	T.	2	.....	.....	.....
1892	36.7	76	-6	0.30	2.8	1	.....	.....	.....
1893	34.4	86	-16	0.83	5.8	6	11	10	9 W.
1894	40.0	82	-9	0.05	.1	0	22	5	3 SW.
1895	32.7	75	-24	1.47	11.0	5	18	7	10
1896	33.4	78	-20	1.23	6.0	6	12	9	9 SW.
1897	39.3	78	-1	0.96	2.7	4	15	8	7 SW.
1898	35.7	82	-8	0.90	3.3	5	16	8	6 SW.
1899	40.5	82	-3	0.70	.6	3	17	7	7 SW.
1900	40.1	80	1	1.51	6.5	5	16	6	8 SW.
1901	41.3	76	0	0.29	T.	2	18	8	4 SW.
1902	36.9	81	-13	1.78	7.9	5	13	8	9 N.
1903	39.1	80	-19	0.73	2.9	2	15	8	7 N.
1904	39.4	83	0	T.	T.	0	25	3	2 N.
1905	37.9	70	-11	1.53	6.8	5	16	5	9 SW.
1906	36.1	90	-18	1.81	12.1	7	10	8	12 W.
1907	37.4	79	-8	0.34	2.9	2	19	6	5 N.
1908	36.0	78	-14	0.62	6.3	2	18	6	6 NW.
1909	40.0	87	11	2.37	7.8	6	10	7	13 S.
1910	42.0	83	-3	0.78	1.3	4	13	8	9 SW.
1911	34.1	70	-20	0.65	4.5	3	15	7	8 N.
1912	37.6	75	-6	0.79	3.0	4	17	6	7 S.
1913	39.6	80	-17	1.70	2.6	6	11	8	11 SW.
1914	38.9	85	-5	0.12	.7	1	23	4	3 N.
1915	38.2	86	-15	1.18	3.6	5	12	7	11 S.

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.9 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year.
1915.	1st	+5.0	+5.7	+6.0	+6.2	+6.3	+6.3	+6.0	+5.5	+5.0	+4.7	+4.5	.....
	15th	+5.0	+5.8	+6.1	+6.3	+6.3	+6.2	+5.8	+5.3	+4.8	+4.6	+4.5	.....

CLIMATOLOGICAL DATA: UTAH SECTION

NOVEMBER, 1915.

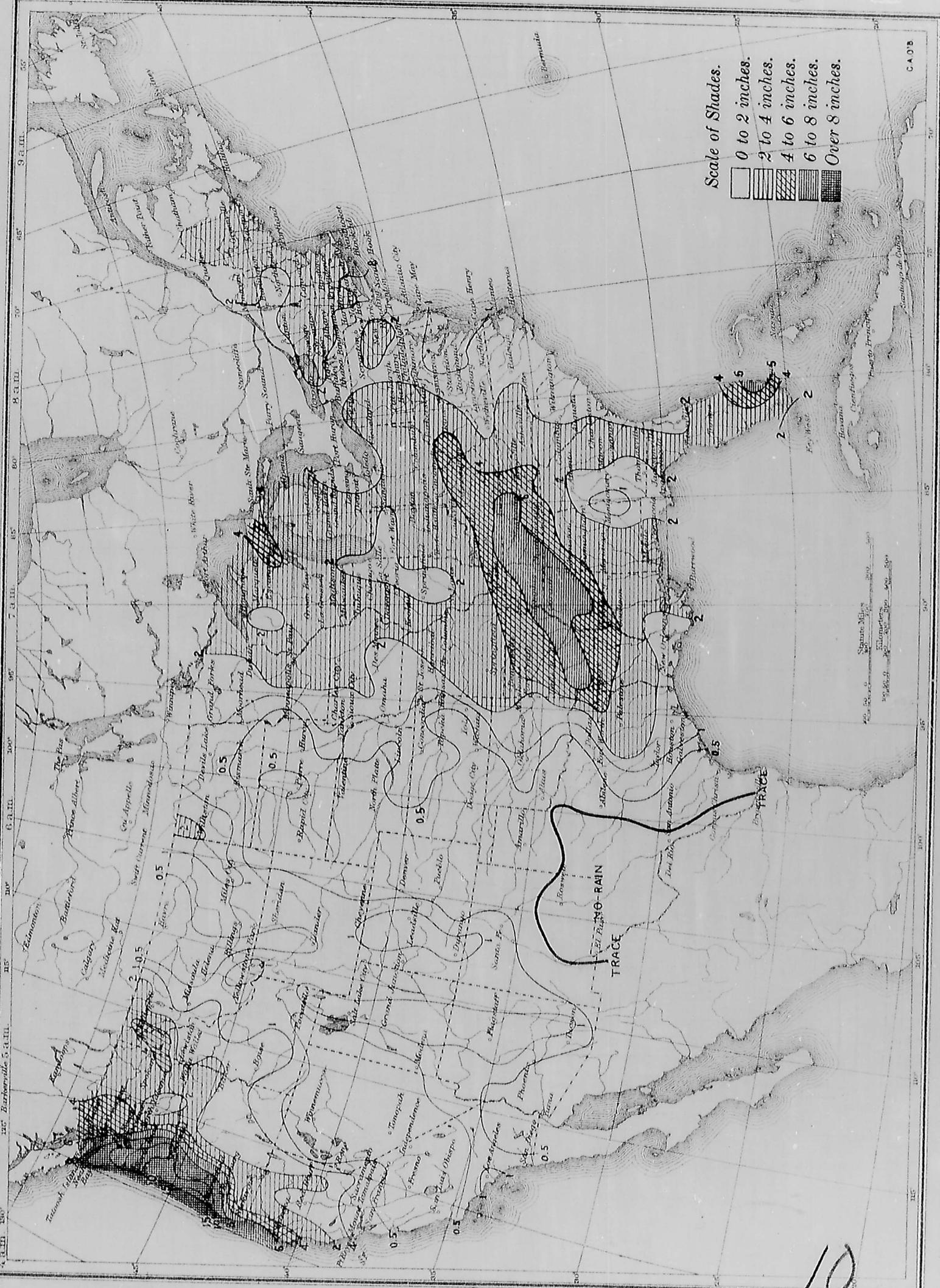
Climatological Data for November, 1915.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.				Precipitation, inches.		Number of days		Observers.								
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total Snowfall, unmeted.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Precipitating direction of wind.	
Alton.....	Kane.....	12.....	35.4.....	.....	65.....	1 [†]	7.....	11.....	38.....	1.96.....	.....	0.88.....	2.8.....	.....	4.....	13.....	7.....	10.....	s.....
Beaver.....	Beaver.....	6,000.....	10.....	+36.8 -2.1	69 ^m	23.....	5 ^m	15.....	56 ^m	1.21+0.46	1.05	1.0	4.....	3.....	18.....	0	12.....	s.....	S. Z. Jenkins.	
Black Rock.....	Millard.....	4,872.....	11.....	-47.8 +10.0	79.....	4.....	15.....	11.....	52.....	-0.60	-0.02	0.30	1.0	5.....	5.....	28.....	0	8.....	s.....	Agent Salt Lake Route.
Blanding.....	San Juan.....	6,000.....	7.....	+36.9.....	60 ^a	6.....	11 ^e	14.....	33 ^a	0.76.....	0.30	0	5.....	5.....	28.....	8 ^a	8 ^a	s.....	E. F. Thompson.
Bluff.....	Boxelder.....	4,200.....	2.....	-47.2 35 ^a	60.....	6.....	12.....	13 ^t	58 ^a	0.03.....	0.03	0	0	1	22.....	0	8.....	s.....	Perry A. Clark.	
Brigham City.....	Sevier.....	4,305.....	2.....	-39.8.....	70.....	3.....	18.....	28.....	34.....	1.10.....	0.42	6.0	0	7.....	7.....	24.....	8	8.....	w.....	N. Merrill Valentine.
Burville.....	Emery.....	6,800.....	3.....	-30.2.....	67 ^a	3.....	4 ^e	17.....	40 ^a	1.05.....	0.47.....	0.47	0	3.....	3.....	26 ^a	1 ^a	2 ^a	s.....	F. R. Curtis.
Castle Dale.....	Iron.....	5,500.....	15.....	.....	68.....	10.....	4.....	17.....	40.....	0.47-0.28	0.37.....	T.	0	2	26 ^a	1 ^a	2 ^a	s.....	Miss Zella Jeffs.
Cedar City ^{††}	Tooele.....	5,750.....	10.....	70.....	1.....	7.....	11.....	38.....	1.96.....	0.88	2.8	4.....	13.....	7.....	10.....	s.....	Parley Dalley.
Center ^{††}	Boxelder.....	4,240.....	44.....	-38.2 +0.9	68.....	1	10.....	29.....	43.....	0.56-0.47	0.28	0	0	3	13.....	2	15.....	s.....	L. C. Peterson.	
Corinne.....	Millard.....	4,541.....	19.....	-40.2 +3.0	73.....	5.....	8.....	28.....	46.....	0.85+0.38	0.55	5.5	T.	2	11.....	4	15.....	s.....	A. C. Murphy.	
Deseret.....	Duchesne.....	5,515.....	7.....	-35.1.....	65.....	5.....	9.....	28.....	36.....	1.08.....	0.75	T.	0	2	10.....	11.....	9.....	w.....	S. W. Western.	
East Portal ^{††}	Wasatch.....	7,650.....	2.....	70.....	3.....	18.....	28.....	34.....	1.10.....	0.42	6.0	0	7.....	7.....	24 ^a	3 ^a	3 ^a	w.....	M. M. Smith.
Elberta.....	Utah.....	4,650.....	12.....	-40.4 +1.0	76.....	4.....	7.....	28.....	40.....	0.80-0.34	0.25	0.5	0	5.....	13.....	5.....	12.....	s.....	Reclamation Service.	
Emery.....	Emery.....	6,200.....	13.....	-42.0 +4.7	69.....	2 ^t	9.....	27.....	44.....	1.17+0.79	1.03	0	0	2	1	1	28.....	n.....	D. G. Walkley.	
Farmington.....	Davis.....	4,268.....	13.....	-41.8 +1.7	70.....	3 ^t	15.....	28.....	39.....	0.87+0.36	1.10	3.8	0	3	11.....	11.....	8.....	n.....	H. C. Wickman.	
Fillmore.....	Millard.....	5,100.....	22.....	-42.8 +0.9	77.....	4.....	15.....	28.....	37.....	2.06+1.10	0.82	3.5	0	6.....	6	24 ^a	3 ^a	3 ^a	w.....	Chas. Boylin.
Ft. Duchesne.....	Uinta.....	4,941.....	26.....	-38.0 -0.9	69 ^a	6.....	8 ^a	29.....	47 ^a	0.61+0.25	0.60	0	0	2	14 ^a	2 ^a	3 ^a	w.....	J. H. Starley.	
Fruitland.....	Boxelder.....	6,725.....	4.....	.....	70.....	2.....	14.....	24.....	48.....	2.90+1.23	0.79	17.2	0	11.....	8.....	6	16.....	n.....	Geo. W. Dickson.
Garland.....	Tooele.....	4,248.....	2.....	-36.1.....	68.....	3 ^t	10.....	27.....	32.....	0.72.....	0.20	6.8	0	7	7	10.....	13.....	s.....	J. E. L. Carey.	
Garrison.....	Millard.....	4,350.....	10.....	.....	70.....	1.....	10.....	27.....	32.....	0.72.....	0.20	6.8	0	7	7	10.....	13.....	s.....	J. T. Roberts.
Government Creek ^{††}	Tooele.....	5,277.....	13.....	-39.2 +0.7	71.....	4.....	9.....	28.....	37.....	1.08-0.00	0.59	4.6	0	7.....	8	10.....	12.....	s.....	Jas. F. Robison.	
Green River.....	Emery.....	4,080.....	14.....	-38.2 -1.3	74.....	4.....	7.....	28.....	48.....	1.05+0.54	0.47	1.5	0	4	16	11	3	sw.	Walter James.	
Hanksville.....	Wayne.....	4,200.....	3.....	-35.8.....	74.....	4.....	5.....	30.....	53.....	0.57.....	0.52	0.5	0	2	20	3	7.....	sw.	E. E. Adams.	
Heber.....	Wasatch.....	5,593.....	21.....	-35.2 -2.6	70.....	2 ^t	-4.....	25.....	50.....	1.03-0.33	0.85	8.5	0	8	9	7	14.....	n.....	F. J. Weber.	
Henefer.....	Summit.....	5,301.....	14.....	-33.8 -1.3	72.....	5.....	-2.....	14.....	48.....	2.90+1.23	0.79	17.2	0	11.....	8.....	6	16.....	n.....	John Crook.	
Ibapah.....	Tooele.....	7,500.....	9.....	-37.0.....	71.....	4.....	-2.....	28.....	48.....	0.49.....	0.24	3.8	0	6	10	19	1	sw.	Wm. Brewer.	
Iosepa.....	Tooele.....	4,356.....	3.....	-38.1.....	64 ^a	25.....	7.....	28.....	41 ^a	1.00.....	0.55	T.	0	4	21	8	1	s.	W. M. Chastain.	
Kanab.....	Kane.....	4,925.....	6.....	.....	70.....	1.....	7.....	28.....	41 ^a	1.00.....	0.55	T.	0	4	21	8	1	s.	James K. Halemanu.
Kelton.....	Boxelder.....	4,230.....	34.....	-33.8 -2.0	63.....	5.....	2.....	14.....	35.....	0.32-0.05	0.15	1.0	0	5	2 ^b	14	12 ^c	s.	D. R. Rust.	
La Sal.....	San Juan.....	7,000.....	11.....	-36.1 -1.5	69.....	4.....	8.....	14 ^t	33.....	0.90-0.03	0.50	0	0	8	10	18	2	s.	F. W. Klock.	
Leeds (near) ^{††}	Washington.....	3,400.....	1.....	.....	70.....	1.....	12.....	24.....	12.....	1.62.....	0.63	0	0	4	21	0	9	s.	La Sal Live Stock Co.
Lehi.....	Boxelder.....	4,221.....	3.....	-39.4.....	65.....	4.....	17.....	28.....	39.....	0.97.....	0.80	0	0	5	10 ^d	7 ^d	9 ^d	s.	B. F. Anderson.	
Levane.....	Juab.....	5,010.....	24.....	-39.3 -2.7	74.....	4.....	10.....	28.....	39.....	1.11-0.18	0.65	8.0	0	6	10	10	10	n.	E. J. Ineck.	
Logan.....	Cache.....	4,507.....	23.....	-38.7 +1.1	67.....	3.....	14.....	29.....	41 ^d	1.37+0.07	0.47	9.0	0	6	10	10	10	n.	John C. Jensen.	
Low ^{††}	Tooele.....	4,602.....	3.....	-32.6.....	60.....	25.....	9.....	32.....	40.....	1.37+0.07	0.47	9.0	0	6	10	10	10	n.	Experiment Station.	
Lower American Fork ^{††}	Utah.....	5,063.....	1.....	-41.2.....	72.....	4.....	15.....	28.....	32.....	0.20.....	0.00	2.0	0	2	13	8	9	s.	Agt. Western Pacific Co.	
Lower Mill Creek ^{††}	Salt Lake.....	4,235.....	3.....	-42.8.....	73.....	4.....	17.....	28.....	36.....	1.12.....	0.75	8.4	0	2	12	6	12	n.	W. S. Greenwood.	
Lucin.....	Boxelder.....	4,504.....	7.....	-36.2.....	72.....	1 ^t	3 ^t	14 ^t	26.....	2.50.....	0.95	18.0	0	9	5	10	15	s.	D. Folker.	
Manilla.....	Uinta.....	6,225.....	4.....	-30.0.....	74.....	1.....	2 ^t	14 ^t	30 ^t	0.37.....	0.26	0.8	0	4	14	11	5	n.	E. C. Puryear.	
Manti.....	Sanpete.....	5,575.....	19.....	-37.6 +0.5	72 ^a	4.....	5.....	28.....	50.....	1.46+0.63	0.74	2.8	0	6	6	6	6	s.	D. M. Nelson.	
Maravala.....	Plute.....	6,180.....	18.....	-34.9 -2.0	78 ^a	4.....	5 ^b	15.....	40 ^a	0.96+0.19	0.68	2.2	0	3	8 ^c	3 ^c	16 ^c	w.	J. M. Anderson.	
Meadowville ^{††}	Rich.....	6,200.....	13.....	-34.3 +1.0	67.....	4.....	5 ^t	28.....	36.....	1.01+0.21	0.38	6.2	0	7	8	4	18	s.	A. Soyka.	
Midlake ^{††}	Boxelder.....	4,235.....	3.....	-32.6.....	60.....	1 ^t	28 ^t	38 ^t	40.....	0.10-0.21	0.38	6.2	0	1	7	4	19	nw.	J. S. Moffat.	
Midvale.....	Salt Lake.....	4,365.....	2.....	-42.4.....	76.....	4.....	6.....	28.....	40.....	0.10-0.10	0.10	10.0	0	1	7	4	19	s.	Stella M. Gibson.	
Moab.....	Beaver.....	4,962.....	6.....	.....	73 ^d	4.....	6.....	24.....	40.....	1.27.....	0.58	8.9	0	7	8	8	14	s.	E. D. Camomile.
Modena.....	Grand.....	4,000.....	24.....	-42.4 +1.2	78.....	4.....	17.....	28.....	44.....	0.88+0.21	0.21	0	0	2	6	14	10	s.	Delta Land & Water Co.	
Monticello.....	Iron.....	5,479.....	13.....	-37.9 -1.1	71.....	4.....	9.....	28.....	42.....	0.54-0.06	0.44	T.	0	4	11	12	7	w.	Henry Crouse.	
Morgan.....	Morgan.....	5,008.....	10.....	.....	64.....	4 ^t	7 ^t	14 ^t	31 ^t	0.90.....	0.55	0	0	4	23	4	3	sw.	U. S. Weather Bureau.
Mosida.....	Sanpete.....	6,000.....	6.....	-38.0	73 ^a	4	9 ^b	25.....	32 ^a	2.12.....	1.39	8.7	0	7	7	12	11	sw.	Dash Smith.	
Mountain Home.....	Washington.....	4,510.....	2	-39.2	76.....	5	10	28 ^t	40.....	0.64.....	0.64	0	0	1	19	4	7	s.	Mosida Fruit Lands Co.	
Nephi (near).....	Juab.....	5,119.....	9.....	.....	67 ^a	1	-3 ^t	14 ^t	40 ^t	0.72.....	0.46	1.0	0	3	20 ^a	0 ^a	7 ^a	w.	Oscar Wilkins.
Oak City.....	Millard.....	4,900.....	7.....	.....	70.....	2.....	2 ^t	14 ^t	47 ^a	0.40-0.48	0.14	0	0	2	13	3 ^a	4 ^a	s.	J. W. Jones.
Ogden.....	Weber.....	4,310.....	48.....	-41.8 +3.3	72 ^a	5.....	17.....	28.....	45.....	1.78+0.62	0.80	9.0	0	7	15	5	10	n.	Ralph Shorten.	
Panguitch.....	Garfield.....	6,560.....	2	-33.0	69.....	1	4	28 ^t	46.....	1.81-0.09	0.91	0	0	3	17	3	10	nw.	H. L. Strembel.	
Park City.....	Summit.....	7,000.....	14.....	.....	70.....	1	4	14 ^t	42 ^t	2.12.....	1.39	8.7	0	7	7	12	11	sw.	Alex Matheson.
Parowan.....	Tooele.....	6,335.....	2	-33.4	67 ^a	5	1 ^t	13 ^t	43 ^a	2.15.....	0.83	0.5	0	3	13	3	4	sw.	W. S. Hall.	
Pasadena Ranch ^{††}	Washington.....	5,907.....	16.....	-39.8 +3.9	70 ^a	1 ^t	14 ^t	20 ^t	52 ^a	0.90-0.31	0.78	0.1	0	3	13	3	4	s.	Granville Denning.	
Pine View ^{††}	Carbon.....	5,567.....	3	.....	65 ^a	5	-15	28.....	40.....	2.18.....	0.40	14.3	0	3	20	0			

Daily Precipitation for November, 1915.

Daily Temperatures for November, 1915.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Black Rock.....	70	73	77	79	78	70	68	64	65	63	56	52	69	62	70	66	56	60	73	66	60	70	65	68	64	66	52	60	65	65.....	66.0	
	23	29	30	32	33	35	33	31	28	29	15	19	17	17	23	17	29	31	21	23	45	46	36	38	32	33	26	30	33	20.....	29.6	
Blanding.....	36	35	35	36	42	40	37	35	39	28	18	17	21	11	19	24	21	21	27	32	32	31	20	27	14	19	54	47	46	44.....	46.3	
Burrville.....	46	45	51	54	58	59	59	42	39	30	32	26	22	5	4	10	15	10	19	24	25	20	15	16	16	10	19	15	18.6.....	27.5
Castle Dale.....	Maximum.....	68	65	67	66	66	61	55	53	47	52	43	46	34	38	42	34	45	50	54	50	52	57	55	52	49	41	62	52	42	41.....	51.3
	Minimum.....	25	28	27	34	38	42	25	27	22	22	19	22	14	21	19	24	26	39	32	26	27	29	20	18	21	15	10	30	30.....	25.1	
Deseret.....	Maximum.....	68	71	69	68	73	60	55	55	49	42	50	40	41	49	53	44	55	62	65	54	63	45	48	41	58	45	42	48	51.....	54.5	
	Minimum.....	22	26	43	41	42	43	40	33	41	26	19	20	20	11	13	13	13	20	21	36	26	22	24	35	12	25	22	8	24.....	25.9	
Duchesne.....	Maximum.....	61	59	61	63	65	60	49	42	45	40	36	39	33	33	37	33	42	52	49	57	58	59	51	41	40	48	39	33	38	48.....	47.2
	Minimum.....	33	26	28	32	28	25	31	29	19	14	21	18	12	20	22	16	17	19	35	36	21	24	21	20	23	9	10	17	17.....	23.0	
Elberta.....	Maximum.....	62	70	70	76	73	68	56	55	51	47	40	45	38	38	45	40	41	50	56	58	58	60	68	62	41	50	40	37	45	45.....	52.8
	Minimum.....	28	30	43	50	49	45	39	31	44	30	22	24	16	10	14	29	16	25	23	29	31	33	12	30	16	7	20	20.....	28.0		
Emery.....	Maximum.....	67	69	63	65	68	69	65	60	61	66	64	60	61	51	45	46	48	50	51	60	64	52	45	45	41	39	37	30	36	38.....	54.2
	Minimum.....	26	25	29	32	30	29	20	21	25	21	18	17	11	10	13	19	29	23	20	28	24	11	13	12	10	12	13.....	29.8			
Fillmore.....	Maximum.....	70	74	71	77	72	61	50	51	44	47	48	37	40	50	49	50	56	63	64	67	65	65	41	62	46	41	46	51.....	55.7		
	Minimum.....	33	37	40	42	46	44	36	33	37	27	21	24	20	17	19	32	20	26	27	42	34	34	38	34	17	25	15	22	25.....	30.0	
Ft. Duchesne.....	Maximum.....	63	63	65	65	67	69	55	53	51	42	40	42	39	40	46	48	46	45	47	43	45	45	43	45	43	39	41	38	49.....	48.9	
	Minimum.....	21	20	22	23	23	22	20	21	18	23	20	15	15	17	15	15	12	13	12	14	12	11	13	10	9	8	8.....	10.2			
Fruitland.....	Maximum.....	64	67	64	71	69	63	50	52	50	42	37	40	31	37	47	47	37	51	56	59	55	57	53	45	49	39	37	46	44.....	50.3	
	Minimum.....	27	35	47	52	47	45	36	35	41	24	10	25	18	12	18	19	13	29	31	43	36	33	39	26	11	28	10	9	21.....	28.2	
Government Creek.....	Maximum.....	70	70	68	74	73	69	54	56	54	41	47	42	41	46	48	50	52	57	55	58	57	52	46	48	37	38	43	43.....	52.8		
	Minimum.....	25	22	28	29	30	40	41	32	40	35	23	19	28	14	16	21	18	18	22	22	20	26	23	16	23	7	15	18.....	23.6		
Green River.....	Maximum.....	65	66	70	67	72	63	50	50	50	39	39	33	34	33	42	41	34	45	51	52	50	61	46	51	34	45	35	33	46	40.....	48.0
	Minimum.....	19	18	24	31	31	34	30	29	30	26	15	3	3	2	11	2	24	18	29	33	25	22	20	5	30	10	3	15	28.....	19.7	
Henefer.....	Maximum.....	67	70	67	71	70	67	55	54	52	48	44	49	35	32	43	48	47	47	59	65	62	68	54	43	48	49	51	51.....	54.3		
	Minimum.....	19	22	27	38	37	27	37	21	22	5	10	9	12	3	9	27	5	21	23	37	27	21	27	30	9	26	12	2	17	14.....	19.7
Ibaphah.....	Maximum.....	60	62	62	63	63	60	55	53	53	47	46	40	35	33	40	38	38	42	32	43	48	47	43	38	32	32	22	8	15	22.....	24.7
	Minimum.....	20	25	34	37	35	29	30	21	25	24	25	27	7	2	15	20	9	15	18	20	22	6	17	13	10	4	24.....	20.4			
La Sal.....	Maximum.....	64	67	65	69	67	55	52	48	44	49	43	40	35	35	39	35	32	44	51	51	58	58	57	54	36	50	38	34	43	45.....	47.5
	Minimum.....	33	34	37	38	40	40	36	31	31	24	16	15	17	8	16	23	17	19	22	29	20	18	26	21	18	18	22	22	22	8.....	24.7
Leeds (near) §§.....	Maximum.....	40	41	44	45	47	50	49	42	48	35	30	24	30	30	26	3	32	48	48	36	30	30	30	28	29	25	28	31	31.....	36.0	
	Minimum.....	58	57	63	65	64	57	50	53	48	39	34	41	39	38	32	40	44	49	53	54	55	50	53	51	44	41	40	38	43	42.....	48.6
Lemay.....	Maximum.....	30	30	34	36	38	35	30	34	38	32	28	23	21	21	28	32	30	33	34	35	32	30	31	24	22	17	15	17	25.....	30.1	
	Minimum.....	22	22	28	29	30	36	34	32	38	32	28	23	21	21	20	28	32	30	33	34	32	30	31	24	22	17	15	17	25.....	27.5	
Levan.....	Maximum.....	64	71	66	74	71	63	52	52	50	40	39	35	35	47	51	44	49	50	55	58	52	61	64	56	36	50	38	34	43	45.....	45.1
	Minimum.....	29	32	37	41	42	44	37	31	41	30	21	19	18	14	17	28	18	24	24	40	39	31	30	29	21	17	10	23	26.....	27.5	
Logan.....	Maximum.....	61	62	67	65	65	60	56	52	47	41	51	43	30	35	32	34	32	44	38	45	55	57	56	57	57	57	57	57	57	57.....	46.8
	Minimum.....	38	37	39	49	49	39	30	30	36	35	28	23	20	20	14	26	32	-21	34	34	45	35	34	44	30	31	28	23	26.....	30.6	
Low §§.....	Maximum.....	62	62	55	55	51	41	60	62	62	37	32	22	20	20	30	22	20	40	50	52	50	48	46	50	48	48	46	44	44.....	43.4	
	Minimum.....	22	24	31	38	27	25	21	22	31	22	18	11	9	10	11	19	12	18	20	22	22	19	20	13	15	17	16	16	16.....	21.6	
Lucin.....	Maximum.....	72	71	68	70	72	70	60	54	49	40	42	40	35	35	39	42	40	52	50	50	52	49	48	48	35	43	45	42	44	44.....	49.5
	Minimum.....	35	33	34	36	39	35	30	38	35	30	25	13	12	12	7	15	21	20	28	24	30	30	29	12	16	14	3	32	20.....	23.0	
Manila.....	Maximum.....	73	70	60	60	60	50	52	43	41	37	40	34	34	46	49	39	51	56	56	53	63	57	54	33	31	37	38	46	47.....	44.1	
	Minimum.....	27	28	27	28	34	30	31	38	30	20	17	19	10	17	29	16	27	37	34	33	32	33	28	9	23	17	11	21	26.....	26.7	
Moab.....	Maximum.....	68	70	74	76	70	67	60	56	52	48	43	46	35	42	48	46	55	55	56	63</td											



NOVEMBER, 1915.

Daily Precipitation for November, 1915.

Continued from page 91.

Stations.	Day of month.																														Total.					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Revere.....						.50	.06		.15	.05		.50			.05																	.05				
Richfield.....						.23	.02	.03	.31	.24	.01	T.			.04	.01				.04											.09					
Rivervalley.....						.79			.57						.02				.03			.16	.09									.10				
St. George.....(C)						.08	.63		.35	.19		.17			.03																	.1.53				
Saltair.....						.67	.07		.14	.21	T.	.01	T.		.10				.01												.02					
SALT LAKE CITY ***						.01	.15	.20	.17	.04		.18	T.		.04																.1.61					
Santaquin.....						.40	.64	T.	.25		T.		.35																				.1.94			
Scipio.....						.10	.00	.14	.06	.18	.08	.04	.03		.05															.1.84						
Scofield.....(C)						.1.04	.69					.64		.82																			.3.21			
Silver City.....																																				.3.51
Silver Lake.....																																				
Snake Creek |||						.01	.49	.03	.29	.27	T.			.05	.22				.08			.13	.23	.25	.08								.2.18			
Snowville.....								.14	.12					.14																				.0.40		
Spanish Fork.....						.38	.92	.01	.12	.14		T.																					.1.41			
Springdale.....(C)						.38	.80	.15	T.	.14																							.1.47			
Standrod.....						.38	.93	T.	.13	.09	T.	T.		.07		.11	T.			.13			.12	T.	.23								.0.87			
Sunnyside.....(C)						.11		.04	.02					.07			T.																.1.48			
Teasdale.....(C)						.47	.40		.15	.28	.01		.02				.01	T.													.0.27					
Thistle.....(C)																																				.1.40
Thompson's.....(C)																																				
Tooele.....						.06	.46		T.	.49							T.	.02															.1.14			
Tremonton |||						.10	.01	.08	.21																								.0.77			
Tropic.....(C)						.62	.11		.09	.10																							.0.92			
Trout Creek Ranger.....(C)						.19	.46	.25	.37	.31																						.1.77				
University of Utah.....						.80	.10		.30																									.1.66		
Utah Experiment Station.....						.16	.85		.44	.07								.02															.1.04			
Vernal.....(C)						.08	.47	T.	.04	.18								.16			.03											.1.00				
Victor.....(C)																																				
Watson (near).....(C)																																				
Wendover.....																																				
Whiskey Creek |||						1.00	.90			.16	.10																						.1.99			
Winder.....						.11																													.0.86	
Woodruff.....						.10	.40		.11	.15		T.	T.																				.1.05			
Woodside.....(C)						.66	.85	.03																										.1.04		

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

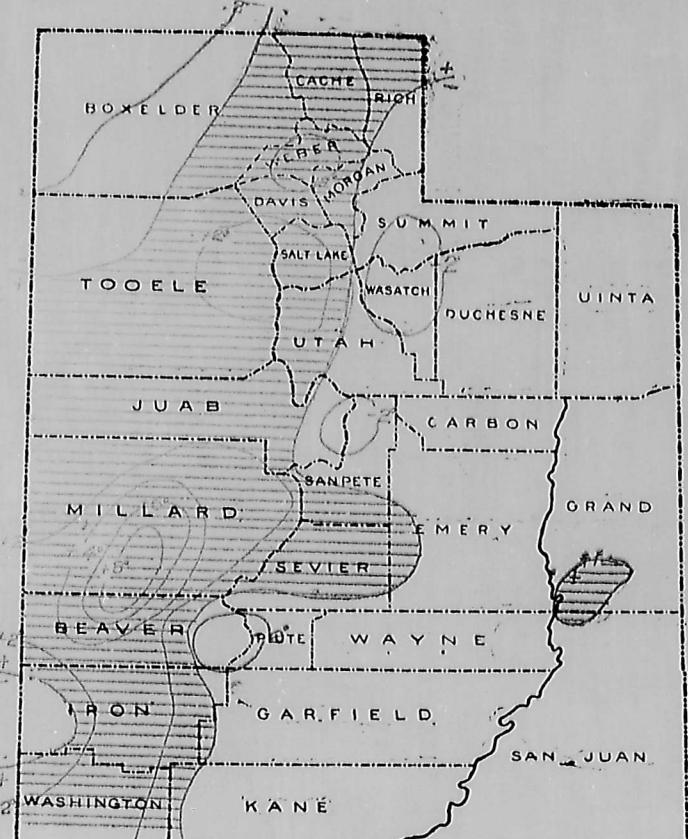
*** Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight.

* Precipitation included in the next following measurement. I Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow.

All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

Departure of Mean Temperature from the Normal, November, 1915.

Total Precipitation, inches, November, 1915.



U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

DECEMBER, 1915

BY

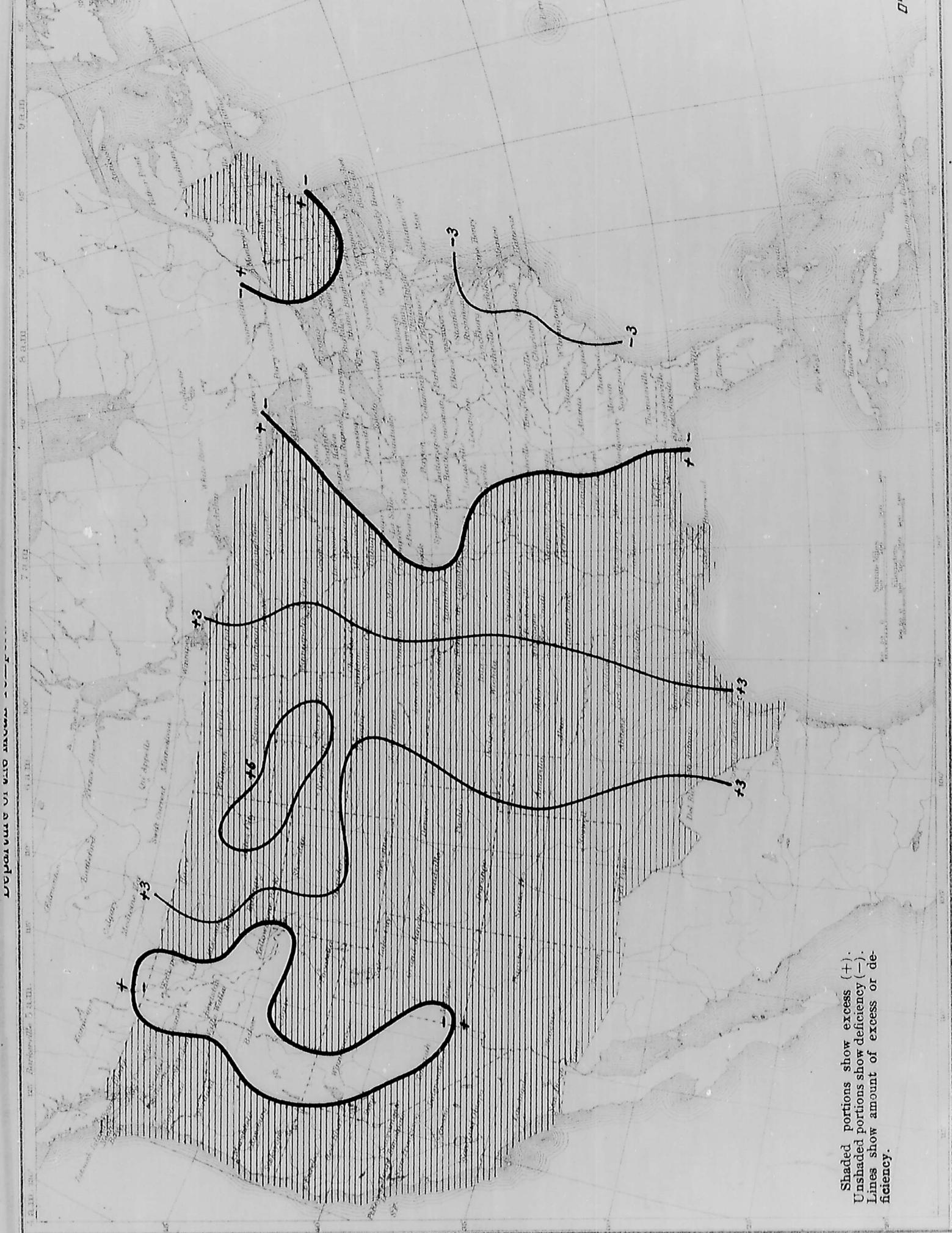
ALONZO A. JUSTICE,

ACTING SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
JANUARY 20, 1916

//



Shaded portions show excess (+).
 Unshaded portions show deficiency (-).
 Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALONZO A. JUSTICE, Acting Section Director.

VOL. XVII. SALT LAKE CITY, UTAH, DECEMBER, 1915. No. 12.

GENERAL SUMMARY.

The weather for the month may be characterized as generally favorable both as to temperature and precipitation. Compared with the normal the temperature was 8 percent above and the precipitation 25 percent above. The first two decades were very mild for the season; farm work was carried on, the ground being in condition for plowing in places; stock on the ranges did well. The last decade was cold and stormy, heavy snows fell generally over the State, accompanied in places by strong winds which left it in drifts. In Tooele County fields were swept bare of snow thus causing injury to fall grain. However, as a rule, the farmers were encouraged by the snow which promised plenty of water for the coming summer.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 30.10 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.69 inches at Salt Lake City on the 24th. The lowest was 29.42 inches at Salt Lake City on the 28th.

TEMPERATURE.

The monthly mean temperature for the State as determined from 76 stations was 28.3° , which is 2.0° above the normal. The local mean temperatures ranged from 40.8° at Springdale to 19.2° at Woodruff. Of 37 stations having ten or more year's record, 10 reported monthly means below normal. The greatest deficiencies occurred in Boxelder, Sevier and Iron counties; and the greatest excess occurred in Uinta and Grand counties. The greatest plus departure was 7.8° at Vernal, whose mean was 25.5° ; and the greatest deficiency was 4.0° at Richfield, whose mean was 23.8° . The maximum temperatures for the month occurred usually from the 4th to the 9th, though at some stations they occurred on the 23d and 24th, the highest being 68° at Iosepa on the 4th and at Milford on the 8th. The minimum temperatures were observed from the 27th to the 31st, the lowest being -21° at Scofield on the 19th.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 70 per cent, and at 6 p. m. 68 per cent. At Modena at 6 a. m. it was 76 per cent, and at 6 p. m. 60 per cent.

PRECIPITATION.

The precipitation for the State averaged 1.26 inches, which is 0.25 inch above normal. Of 36 stations having normals, 2 reported amounts exactly normal, 14 reported amounts below normal and 20 amounts above. The local monthly amounts ranged from 0.05 inch at Randolph to 5.75 inches at Moab. The greater amounts fell from the 28th to the 31st, during which period the precipitation was quite general. General pre-

cipitation also occurred on the 4th, 5th, 14th and 15th, but the amounts were lighter. The greatest 24-hour amount was 3.30 inches at Moab on the 31st. The observer at this station reported that 46 inches of snow fell during the last three days of the month, and that at the close of the month the snow was 22 inches deep on a level. This breaks all records for that station. The average snowfall for the State was 12.0 inches, which is the fifth heaviest of record for December.

WIND.

The prevailing direction of the wind for the State was from the north. The average velocity at Salt Lake City was 5.9 miles per hour; the highest 48 miles per hour from the north on the 28th; and the prevailing direction from the northwest. At Modena the average velocity was 8.8 miles per hour; the highest 39 miles per hour from the southwest on the 14th; and the prevailing direction from the west.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 47 at Salt Lake City, and 50 at Modena.

For the State the average number of clear days was 11; partly cloudy, 7; and cloudy, 18.

COMPARATIVE DATA FOR DECEMBER.

Year.	Temperature.			Average precipitation.	Total snowfall.	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891	26.0	71	-19	1.42	15.6	7			
1892	25.0	66	-19	1.27	7.9	7			
1893	31.1	70	-19	1.80	10.4	6	11	10	n.
1894	26.3	64	-17	1.94	15.6	7	13	7	sw.
1895	21.0	64	-24	0.78	.9	4	16	7	n.
1896	31.0	66	-3	0.46	4.0	2	15	9	7
1897	22.7	68	-19	1.16	10.3	5	16	7	n.
1898	28.1	72	-17	0.68	6.8	4	19	6	n.
1899	25.2	74	-26	0.95	8.2	5	14	7	n.
1900	30.6	68	-27	0.14	1.0	1	16	8	7
1901	29.0	71	-18	0.81	5.1	4	15	7	n.
1902	27.0	66	-25	0.89	6.8	4	14	8	n.
1903	26.4	76	-26	0.87	3.7	2	21	4	n.
1904	28.8	81	-25	0.74	6.8	4	17	6	n.
1905	22.8	68	-32	0.62	7.9	4	18	6	n.
1906	33.3	76	-12	1.68	5.8	6	11	9	11
1907	30.6	68	-22	1.58	11.8	6	9	8	sw.
1908	25.4	66	-29	0.97	8.1	4	15	8	sw.
1909	17.5	64	-35	2.16	17.1	8	11	6	n.
1910	31.0	74	-13	1.15	6.2	6	10	8	13
1911	23.4	70	-24	0.81	10.1	5	13	8	n.
1912	24.3	66	-32	0.47	6.0	3	15	8	n.
1913	24.2	61	-28	1.15	14.3	6	12	8	n.
1914	22.6	59	-26	0.53	5.5	4	14	7	n.
1915	28.3	68	-21	1.26	12.0	6	11	7	13

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.9 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1915.	1st	+5.6	+5.7	+6.0	+6.2	+6.3	+6.8	+6.0	+5.5	+5.0	+4.7	+4.5	+4.5
	15th	+5.6	+5.8	+6.1	+6.3	+6.2	+5.8	+5.3	+4.8	+4.6	+4.5	+4.5	+4.5

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CLIMATOLOGICAL DATA: UTAH SECTION

DECEMBER, 1915.

Climatological Data for December, 1915.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.					Precipitation, inches.					Number of days					Observers.
				Mean.	Departure from the normal.	Highest.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total Snowfall, unmeted.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Precipitation direction of wind.	
Alton.	Kane.	12	27.5	55	22	-2	30	35	2.53	0.70	0.20	22.0	7	13	9	9	n.	Wm. M. Cox.	
Beaver.	Beaver.	6,000	10	29.4 + 0.5	63	-4	30	41	0.97 - 0.27	0.38	10.5	5	13	8	10	n.	S. Z. Jenkins.		
Black Rock.	Millard.	4,872	11	.....	.....	-19	30	50	0.30 - 0.13	0.20	3.5	2	10	0	21	n.	Agent Salt Lake Route.	
Blanding.	San Juan.	6,000	7	28.8	50	-8	17 ^t	27	3.24	0.70	28.0	5	13	4	14	sw.	E. F. Thompson.		
Bluff.	San Juan.	4,200	2	34.2	60	6	11	28	37	1.61	0.60	14.9	6	19 ^b	0 ^b	10 ^b	n.	Perry A. Clark.	
Brigham City.	Boxelder.	4,305	2	30.6	58	13	-2	31	26	0.86	0.85	6.5	5	.....	.....	.....	.....	N. Merrill Valentine.
Burrville.	Sevier.	6,800	3	29.9	30	8	19	20	1.45	0.85	4.2	4	13	7	13	n.	F. R. Curtis.		
Castle Dale.	Emery.	5,600	15	29.1 + 6.3	59	6	14	12 ^t	24	0.75 + 0.09	0.30	.....	4	.....	.....	.....	.....	Miss Zella Jeffs.
Cedar City [†] .	Iron.	5,760	10	29.6 - 0.9	64 ^t	7 ^t	-5 ^t	30	37 ^t	1.75 + 1.04	0.90	16.2	8	5 ^t	2 ^t	14 ^t	sw.	Parley Dailey.	
Center.	Tooele.	4,250	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. C. Peterson.
Corinne.	Boxelder.	4,240	44	27.3 - 1.3	48	4 ^t	-5	31	35	0.30 - 1.20	0.15	2.3	3	11	5	15	.....	A. G. Murphy.
Deseret.	Millard.	4,641	19	28.8 + 3.1	59	2	-6	30	45	0.55	0.00	0.55	T.	1	12	5	14	n.	S. W. Western.
Duchesne.	Duchesne.	5,515	7	22.6	51	5	6	19	32	0.72	.....	8.0	4	7	10	14	.....	M. M. Smith.
East Portal.	Wasatch.	7,606	2	26.5	22	10	10	29	35	0.52 - 0.02	0.13	9.1	6	17	1	13	w.	Reclamation Service.	
Elberta.	Utah.	4,650	12	30.4 + 3.0	59	3	-7	30	34	0.46 - 0.31	0.20	3.8	8	14	4	13	n.	D. C. Walkey.	
Emery.	Emery.	6,200	18	27.8 + 0.4	57	8	-4 ^a	30	40 ^a	0.70 + 0.22	.....	.....	2	0	29	.....	.....	H. C. Wickman.
Farmington.	Davis.	4,268	13	32.4 + 2.2	55	4	1	31	24	1.39 - 0.54	0.43	12.9	6	18	8	5	n.	Chas. Boylin.	
Fillmore.	Millard.	5,100	22	31.5 + 1.5	61	8	-10	30	37	1.53 + 0.44	0.50	17.5	9	.....	.....	.....	J. J. Starley.	
Ft. Duchesne.	Uinta.	4,941	26	22.5 + 5.1	60	5	-10	29	35	0.52 - 0.02	0.13	9.1	6	17	1	13	w.	Geo. W. Dickson.	
Fruitland.	Duchesne.	6,725	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. E. L. Carey.	
Garland.	Boxelder.	4,248	2	26.8	49	7	-3	30	26	0.82	.....	9.0	9	13	6	12	n.	J. T. Roberts.
Garrison.	Millard.	4,850	10	24.4	62 ^m	13	-7 ^m	30	51 ^m	0.96 + 0.16	0.27	8.8	10	8	12	11	s.	Jas. F. Robison.	
Government Creek.	Tooele.	5,277	18	29.3 + 1.9	57	3	-9	30	32	0.96 + 0.16	0.27	8.8	10	8	12	11	s.	Walter James.	
Green River.	Emery.	4,080	14	30.2 + 6.5	55	6	4	29	37	1.37 + 1.11	0.55	8.5	6	14	9	8	sw.	E. E. Adams.	
Hanksville.	Wayne.	4,200	8	27.9	56	13	3	19 ^t	46	1.35	0.40	8.5	6	12	10	9	n.	F. J. Weber.	
Heber.	Wasatch.	5,593	21	24.2 + 1.3	60	9	-16	30	35	1.62 - 0.08	0.85	16.0	9	7 ^t	4 ^t	18 ^t	n.	John Crook.	
Henefer.	Summit.	5,301	14	25.2 + 1.8	51	7	-17	27	42	2.18 + 0.68	0.39	18.8	13	12	7	12	w.	Win. Brewer.	
Ibapah.	Tooele.	7,600	9	27.2	59	8	-15	30	46	1.07	0.42	8.0	5	14	10	7	.....	W. M. Chastain.
Josepa.	Tooele.	4,356	8	31.0	68	4	0	27 ^t	47	0.85	0.32	.....	7	25	5	1	n.	James K. Halemann.
Kanab.	Kane.	4,925	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. D. Rust.	
Kelton.	Boxelder.	4,230	34	24.4 - 3.1	48	6	-13	31	37	0.93 + 0.20	0.35	2.0	5	2	11	18	.....	F. W. Klock.
La Sal.	San Juan.	7,000	11	27.4 + 3.1	53	8	-2	27	32	1.72 + 1.00	0.61	30.0	6	6	15	10	.....	La Sal Live Stock Co.
Leeds (near).	Washington.	3,400	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. F. Anderson.	
Lehi.	Utah.	4,550	1	30.0	63 ^t	9	-6 ^t	29	30 ^t	0.78	0.20	.....	8	5 ^t	10 ^t	9 ^t	.....	Joseph Anderson.
Lemay.	Boxelder.	4,221	3	31.0	47	7	-2	31	24	0.24	0.12	3.5	3	8	11	12	.....	E. J. Ineck.
Levan.	Juab.	5,010	24	28.8 + 3.7	54	8	-7	30	30	1.14 - 0.53	0.24	11.3	9	11	3	17	s.	John C. Jensen.	
Logan.	Cache.	4,507	23	28.8 + 3.4	50	7	-9 ^a	31	26 ^a	0.78 - 0.28	0.27	7.0	5	13	9	9	.....	Experiment Station.
Low.	Tooele.	4,602	3	30.6	64	4	9	18	41	0.40	0.20	4.0	3	15	2	14	.....	Agt. Western Pacific Co.
Lower American Fork.	Utah.	5,063	31	6	55	13	3	31	26	1.06	0.30	9.0	10	9	8	14	n.	W. S. Greenwood.	
Lower Mill Creek.	Salt Lake.	4,070	1	33.4	55	7	5	31	30	1.07	0.88	10.8	8	8	11	12	.....	D. Folker.
Lucin.	Boxelder.	4,564	7	27.2	60	23	-13	31	37	0.23	0.10	.....	3	14 ^t	13 ^t	2 ^t	e.	E. C. Puryear.
Manila.	Uinta.	6,225	4	19.7	66	26	-10 ^a	31	50 ^a	0.75	0.60	13.5	2	4	18	9	.....	D. M. Nelson.
Manti.	Sanpete.	5,675	19	27.8 + 2.9	54	1	-8	30	39	0.82	0.00	8.5	8	4	8	19	.....	J. M. Anderson.
Marysville.	Pluto.	6,180	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Soysa.	
Meadowville.	Rich.	6,200	13	26.0 + 1.4	56	22	-10	30	28	0.45 - 0.32	0.20	3.0	3	16	1	14	.....	J. S. Moffat.
Midlake.	Boxelder.	4,235	3	34.6	50	8	-14	30	37	0.75	0.20	6.5	5	4 ^t	11 ^t	15 ^t	.....	Stella M. Gibson.
Midvale.	Salt Lake.	4,365	2	31.4	58	7 ^t	-8	31	35	1.30	0.33	9.2	6	9	9	13	s.	E. D. Cannonille.	
Millford.	Beaver.	4,562	6	30.3	68	8	0	17	35	0.55	0.62	5.2	4	12	6	13	s.	Delta Land & Water Co.	
Moab.	Grand.	4,000	24	31.4 + 1.2	57	14	9	18	33	5.75 + 4.94	3.30	46.0	8	5	12	14	.....	Henry Crouse.
Modena.	Iron.	5,479	13	28.7 - 3.0	58	23	-18	30	37	0.80 + 0.22	0.26	5.3	8	12	9	10	w.	U. S. Weather Bureau.	
Monticello.	San Juan.	7,050	6	27.5	53	7	2	27	33	4.50	1.50	35.0	4	10	10	11	sw.	E. H. Barton.	
Mountain Home.	Morgan.	5,068	10	28.0	56	22	-10	30	28	0.45	0.20	3.0	3	16	1	14	.....	Dasil Smith.
Nephi (near).	Sanpete.	6,000	6	28.0	57	8	-3	30	33	1.00	0.42	8.0	7	6	6	19	sw.	B. F. Eliason.	
Oak City.	Utah.	4,510	2	30.2	66	12	-5	30	37	0.81	0.27	5.0	5	3	19	9	.....	Mosida Fruit Lands Co.
Ogden.	Juab.	6,119	9	19.7	56	23	-13	30	37	0.60	0.28	4.0	4	13	0	13	s.	Oscar Wilkins.	
Ogden.	Millard.	4,900	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Jones.	
Panguitch.	Weber.	4,310	43	31.7 - 0.3	58	9	0	31	33	0.92 - 0.77	0.37	5.0	8	17	4	10	.....	Ralph Shorten.
Park City.	Garfield.	6,560	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. L. Strembel.	
Parowan.	Summit.	7,000	14	30.2 + 1.6	62	8	-5	30	41	1.75 + 0.82	1.10	20.0	4	14 ^t	6 ^t	11 ^t	.....	Alex Matheson.
Pasadena Ranch.	Iron.	5,970	23	30.2 + 1.6	62	8	-5	30	41	1.82	0.86	11.3	7	6	10	15	sw.	W. S. Hall.	
Pine View.	Summit.	6,385	2	25.2	54 ^t	8	-17 ^t	30	47	2.20	0.80	20.0	4	13	0	12	n.	Granville Denning.	
Pinto.	Washington.	6,907	16	27.6 + 1.0	61	23	-13 ^t	30	40 ^t	0.80	0.21	4.5	8	11	7	13	sw.	J. H. Harrison.	
Price.	Carbon.	6,557	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Walter Bass.	
Provo.	Utah.	4,582	20	30.6 + 2.2	59	8	-13	30	37	1.28 - 0.26	0.41	10.5	11	7 ^t	6 ^t	17 ^t	.....	Reclamation Service.
Richfield.	Seyler.	5,350	20	23.8 - 4.0	65 ^m	23	-3 ^m	30	39 ^m	0.39	0.14	5.0	6	10	8	13	.....	Simon Christensen.
Riverville.	Weber.	4,310	1	32.0	54	8	3	31	28	0.80	0.21	4.5	8	11	7	13	sw.	Eugene Bone.	
St. George.	Washington.	2,880	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Ray Smith.	
Salt Lake City.	Salt Lake.	4,220	11	32.4 + 3.3	51	14	4	31	38	1.24 + 0.39	0.36	10.0	9	10	6	16	sw.	J. E. Larson.	
Santaquin.	Carbon.	3,460	39	33.															

Daily Precipitation for December, 1915.

CLIMATOLOGICAL DATA: UTAH SECTION

DECEMBER, 1915.

Daily Temperatures for December, 1915.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean			
Black Rock	Maximum	31	24	23	21	34	23	25	24	20	25	30	32	30	35	37	24	20	12	5	10	20	22	21	18	16	18	4	11	19	0	18.8			
Blanding	Minimum	45	46	41	45	44	46	50	40	47	49	42	38	39	39	39	30	34	36	34	38	42	43	41	31	31	31	21	28	28	32	38.5			
Burrville	Maximum	22	25	25	34	33	32	29	29	26	25	28	23	23	30	30	17	8	8	9	11	12	20	22	18	13	13	13	10	16	16	22	21.0		
Castle Dale	Minimum	60	49	35	42	51	59	48	38	33	29	28	25	42	39	35	40	39	29	36	31	27	34	33	26	26	35	40	30	25	31	24	35.8		
Deseret	Maximum	45	26	25	29	39	41	36	22	20	19	18	14	18	20	21	30	20	19	21	19	18	19	16	15	14	16	29	20	12	20	14	22.4		
Corinne	Maximum	40	42	44	48	45	47	48	44	47	42	43	47	45	43	36	35	31	33	35	36	38	45	35	38	30	32	30	30	19	16	38.1			
Duchesne	Maximum	21	22	19	36	33	20	26	23	23	20	22	20	21	30	32	25	27	15	6	12	5	10	12	25	15	10	-2	-3	15	7	0	16.5		
Elberta	Maximum	16	18	25	34	39	24	22	21	34	28	28	18	18	30	32	28	15	18	10	5	14	19	23	32	13	15	21	3	11	4	-7	3	19.0	
Fruitland	Maximum	50	55	51	56	51	50	53	57	51	49	48	49	42	41	42	44	35	36	40	42	40	39	51	42	31	30	32	30	31	32	30	43.0		
Government Creek	Minimum	22	20	20	22	18	15	17	18	15	16	18	19	18	15	16	10	9	8	11	12	11	10	11	10	7	6	7	0	-4	3	*12.6			
Green River	Maximum	43	41	42	37	54	55	53	51	47	50	54	49	49	53	46	40	33	32	33	34	36	35	40	37	38	30	34	35	41.5					
Henefer	Maximum	40	37	47	47	47	51	49	58	42	43	38	46	48	33	30	33	28	27	42	50	42	42	35	36	32	35	31	26	15	20	38.0			
Ibapah	Maximum	38	50	38	51	46	54	55	59	52	40	46	41	44	44	36	26	40	39	34	44	50	51	50	40	35	43	34	41	39	19	26	42.0		
Kanab	Maximum	16	14	16	31	32	26	22	21	25	16	17	17	24	29	21	10	3	0	-6	-1	13	26	39	9	13	4	-5	20	-8	-15	14.2			
Kelton	Maximum	33	42	42	44	46	48	40	42	41	35	39	36	39	40	32	25	10	24	32	35	37	42	47	32	30	31	29	15	3	18	33.8			
La Sal	Maximum	15	5	14	24	35	28	31	25	26	24	22	20	15	19	17	11	9	7	3	11	19	17	10	11	9	7	8	-10	-13	15.0				
Leeds (near) §§	Maximum	47	50	51	41	37	38	52	53	49	40	45	46	48	39	37	25	24	30	30	34	39	40	46	35	28	30	20	21	29	24	33	37.5		
Lemay	Maximum	44	44	44	46	46	47	44	49	39	44	42	44	43	37	35	38	36	31	35	41	45	45	46	37	32	31	31	32	27	18	18	38.1		
Levan	Maximum	22	24	26	39	31	27	25	24	31	80	21	20	31	20	19	19	26	16	9	3	12	16	20	28	10	15	3	13	6	-7	13.1			
Logan	Maximum	86	86	40	47	43	45	60	46	49	43	40	38	41	44	38	28	30	30	25	34	44	43	43	45	31	25	20	12	33	16	12	35.9		
Low §§	Maximum	22	22	22	34	36	33	39	31	37	23	28	29	23	30	23	23	13	21	12	7	8	27	36	27	17	23	14	6	13	10	9	*21.7		
Lucin	Maximum	18	15	22	19	25	22	24	24	21	20	29	24	24	28	33	23	12	16	9	16	24	23	23	20	15	12	12	11	11	17	14.8			
Manila	Maximum	40	42	39	40	49	50	48	40	42	40	43	42	40	44	30	34	26	26	32	29	38	30	35	40	60	60	60	30	28	8	6	35.7		
Manti	Minimum	0	3	0	7	9	8	12	8	10	11	10	17	15	16	11	8	4	-9	-6	-8	9	6	8	10	-5	-5	-6	-5	-8	-10	-10	*3.7		
Meadowville	Maximum	54	47	50	60	45	47	49	50	45	49	46	49	40	51	40	40	36	36	34	39	44	47	41	38	38	39	37	21	20	41.1				
Milford	Maximum	40	40	47	47	47	45	25	26	23	19	20	22	26	25	35	36	30	26	27	31	32	39	32	29	35	26	23	20	24	20.6				
Moab	Maximum	49	48	51	51	49	53	50	52	43	27	24	25	26	22	24	23	28	31	36	34	44	45	46	33	37	32	32	32	27	31	30	42.2		
Modena	Maximum	48	55	48	43	49	48	49	57	51	43	49	45	46	42	31	26	38	32	34	44	49	56	58	36	39	32	29	25	26	19	40.8			
Monticello	Maximum	45	44	46	40	47	46	47	44	46	37	36	38	34	30	23	26	27	30	35	45	45	56	56	50	34	38	22	34	29	17	34.9			
Moroni	Maximum	21	22	26	31	32	31	25	27	24	28	23	22	30	22	18	3	9	12	7	10	22	23	14	12	15	7	2	12	12	16	19.9			
Mosida	Maximum	40	44	51	51	48	53	57	54	46	48	49	40	50	45	33	27	27	29	32	38	42	49	46	34	35	31	26	27	20	28	19.2			
Ogden §§	Maximum	45	47	51	51	47	49	55	58	50	42	46	42	50	42	36	33	39	41	47	46	42	39	38	37	30	33	21	18	21	40.7				
Panguitch	Minimum	25	27	29	41	40	30	30	29	32	24	27	25	30	33	29	17	18	16	13	24	29	37	19	20	18	8	4	9	12	9	0	22.7		
Park City	Maximum	49	49	48	48	49	49	49	49	48	48	48	48	48	48	48	48	48	48	49	49	49	49	49	49	49	49	49	49	49	49	49	49		
Pasadena Ranch	Maximum	54	57	49	48	39	53	50	62	54	48	48	48	48	48	48	32	34	34	36	35	49	55	60	55	45	45	47	37	34	29	30	33	42.4	
Parowan	Maximum	18	25	26	34	21	25	25	25	23	28	23	22	32	22	14	3	2	8	15	23	25	19	17	7	10	12	5	18.0						
Pinto	Maximum	50	57	60	48	47	47	40	40	50	41	48	45	49	38	30	34	38	33	35	55	52	50	51	45	44	40	34	36	26	19	22.6			
Provo	Maximum	44	45	53	50	53	51	52	59	58	50	46	52	51	50	54	56	55	51	34	32	35	44	45	43	43	42	36	37	33	21	20.4			
Richfield	Maximum	20	20	24	39	34	25	23	22	29	27	21	26	22	21	16	10	9	2	10	18	23	14	12	15	7	1	10	20	24	30.1				
St. George	Maximum	49	44	52	54	47	49	53	54	46	45	46	47	44	45	46	48	49	48	49	47	48	49	48	49	49	49	49	49	49	49	49			
SALT LAKE CITY	Maximum	45	46	52	54	47	49	53	54	50	40	44	44	53	53	53	34	30	37	35	35	46	46	49	45	46	47	40	28	27	31	21	19	19	40.7
Scofield	Maximum	28	29	36	45	38	34	34	36	34	29	30	29	32	32	32	24	20	25	21	18	27	33	38	38	36	36	36	36	36	36	36	26.7		
Standrod	Maximum	9	8	6	3	26	11	7	6	11	8	5	2	6	14	16	0	-2	-13	-21	-21	-3	15	11	9	-4	-3	16	0	-	5	5.7			
Teasdale	Maximum	17	23	27	35	29	28	22	27	32	14	14	16	25	28	17	7	6	14	9	12	30	40	27	11	16	12	12	-10	-18.1					
Tooe																																			

DECEMBER, 1915.

CLIMATOLOGICAL DATA: UTAH SECTION.

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Daily Precipitation for December, 1915.

Continued from page 99.

Stations.	Day of month.																														Total.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Reed.....																																		
Revere.....		.04																																1.55
Richfield.....																																		
Richmond |||.....																																		
Riverdale.....																																		
St. George.....(C)																																		1.09
Saltair.....																																		0.80
SALT LAKE CITY ***.....	T.	T.	T.																															
Santaquin.....																																		
Scipio.....																																		
Scofield.....(C)																																		1.77
Silver City.....																																		0.88
Silver Lake.....																																		1.32
Snake Creek |||.....																																		1.61
Snowville.....																																		2.42
Spanish Fork.....																																		4.00
Springdale.....(C)																																		2.44
Standrod.....																																		1.16
Sunnyside.....(C)																																		1.84
Teasdale.....(C)																																		1.06
Thistle.....																																		0.50
Thompson.....(C)																																		2.47
Tooele.....																																		1.10
Tremonton |||.....																																		1.73
Tropic.....(C)																																		0.67
Trout Creek Ranger.....(C)																																		1.84
University of Utah.....																																		1.72
Utah Experiment Station.....																																		
Vernal.....(C)																																		0.72
Victor.....(C)																																		0.94
Watson (near).....(C)																																		0.68
Wendover.....																																		1.15
Whiskoy Creek |||.....																																		0.44
Winder.....																																		0.68
Woodruff.....																																		0.60
Woodside.....(C)																																		1.05

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

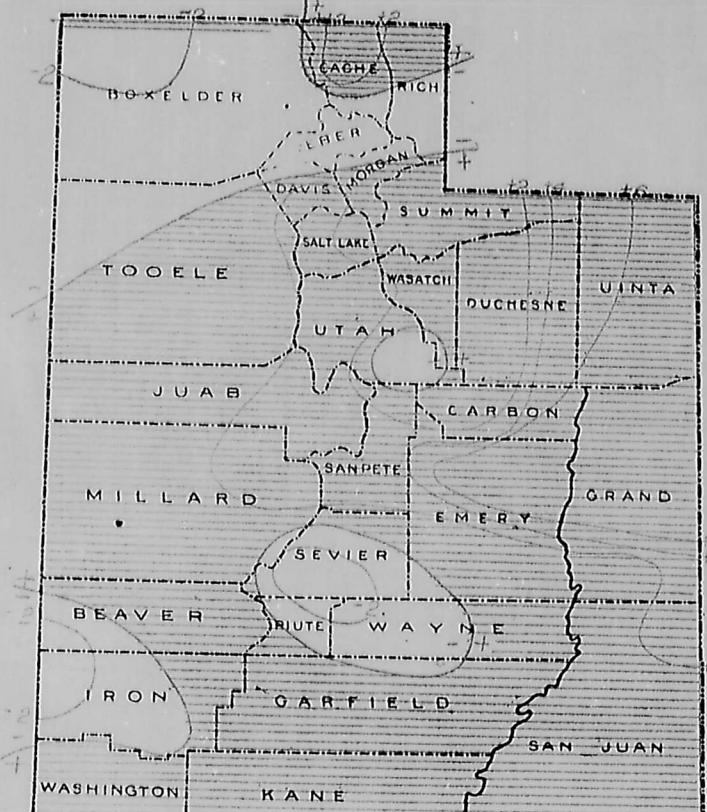
*** Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight.

* Precipitation included in the next following measurement. † Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow.

All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

Departure of Mean Temperature from the Normal, December, 1915.

Total Precipitation, inches, December, 1915.



SCALE OF SHADES—IN INCHES.

[Empty box]	[Vertical lines box]	[Diagonal lines box]	[Cross-hatch box]	[Dotted box]
Less than 1/2	1/2 to 1	1 to 2	2 to 3	Over 3

1/2

SNOW CONDITIONS IN UTAH ENDING DECEMBER 31, 1915.

GENERAL SUMMARY.

As a rule, the snowfall stored away in the mountains and valleys of the state at the end of December, 1915, was greater than for the same period of 1914. A line joining the northwestern and southeastern corners roughly divides the state into areas of comparatively deficient and excessive snowfall. In most localities in the southwestern half observers report the amount as being less than the average and even less than for last December, which was a month of deficient snowfall. However some observers in this section report the amount to be above the average.

DEPTH OF SNOW IN INCHES ON NATIONAL FORESTS.

National Forest	Drainage Basin	Sub-Basin	Number of Stake	Depth at Stakes
Ashley	Green River	East Beaver Creek	80	13
do	do	do	81	15
do	do	Center Beaver Creek	82	16
do	do	Brush Creek	83	11
do	do	do	84	16
do	do	do	85	20
do	do	Ashley Creek	86	19
do	do	do	87	23
do	do	do	88	27
do	do	Uinta River	89	20
do	do	do	90	6
do	do	do	91	11
do	Duchesne	Dry Gulch	92	4
do	do	Yellowstone Creek	93	5
do	do	Lake Fork	94	5
Cache	Bear Lake	Middle Sink	1	55
do	do	Left Hand Fork Garden City Canyon	2	46
do	do	Spring Hollow	3	34
do	do	do	4	50
do	do	do	5	60
Filmore	Beaver	B. R. P. Co's. Plant	6	7
do	do	Little Reservoir	7	9
do	do	Chas. White's Pasture	8	10
do	do	Half Mile East No. 7	9	10
do	do	Half Mile East No. 8	10	10
Sevier	Sevier	Clear Creek	11	4
do	do	do	12	5
do	do	do	13	7
do	do	do	14	5
do	do	do	15	7
do	do	Deer Creek	16	10
do	do	do	17	10
do	do	do	18	14
do	do	do	20	21
do	White Horse	Corn Creek	19	15
do	do	Bowen Canyon	21	9
do	do	do	22	13
do	do	do	23	9
do	do	do	24	10
La Sal	Colorado River	N. Montezuma Creek	25	30
do	do	do	26	36
do	do	Pole Creek	27	35
do	Sevier	Sevier	28	48
do	do	Parowan	29	50
do	do	Sevier	30	24
do	do	Summit between Sevier & Rio Virgin	31	12
do	do	Summit between Sevier & Tropic	32	14
do	do	Sevier	33	14
do	do	Salt Creek Can	34	9
do	do	do	35	9
do	do	Strawberry	36	4
do	do	Bryant's Fork	37	9
do	do	do	38	24
do	do	do	39	24
do	do	do	40	60
do	do	do	41	60
do	do	do	42	36
do	do	Duchesne River	43	18
do	do	do	44	16
do	do	do	45	16
do	do	do	46	16
do	do	do	47	16
do	do	do	48	16
do	do	do	49	16
do	do	Bear River	50	69
do	do	Mill Creek	51	36
do	do	do	52	36
do	do	Utah Lake	53	70
do	do	American Fork	54	71
do	do	do	55	72
do	do	Weber River	56	73
do	do	Beaver Creek	57	74
do	do	do	58	76
do	do	do	59	76
do	do	do	60	76
do	do	do	61	76
do	do	do	62	76
do	do	do	63	76
do	do	do	64	76
do	do	Price River	65	17
do	do	Provo River	66	17
do	do	Daniels Creek	67	16
do	do	do	68	16
do	do	do	69	16
do	do	do	70	36
do	do	do	71	9
do	do	do	72	13
do	do	do	73	22
do	do	do	74	24
do	do	do	75	25

In the northeastern half almost all reports indicate an excess. In the Cache National Forest in the extreme north portion Forest Rangers report a depth of from 3 to 4 feet in the higher mountains while last year the depth did not exceed this at any time during the winter. In San Juan and Grand counties the snow was from 1 to 4 feet deep on the level, the greatest amount on the ground at one time in many years in that section.

As a rule the snow was well packed and drifted which is favorable for late keeping.

Stations,	Counties,	At station, (inches.)			Estimated depth in adjacent mountains or hills.			Prospective water supply compared with average.
		On ground at end of month.	Total snowfall for the month.	Total precipitation for the month.	Inches.	Compared with last year.	Compared with average.	
Great Salt Lake Watershed.								
Brigham City	Boxelder	6.0	6.5	.86	14	+	*	
Corinne	do	2.0	2.3	.30	6	+	*	
Lucin	do			.23				
Snowville	do		4.0	1.16				
Standrod	do	3.5	5.6	.50				
Tremonton	do	4.1	.67	24	+			
Lemay	do	1.0	3.5	.24				
Clarkston	Cache			.72				
Logan	do		7.0	.78				
Millville	do	6.0	6.0	.74	48	+		
Richmond	do	4.0	9.0	1.09				
Farmington	Davis		12.9	1.39				
Meadowville	Rich		3.0	.45				
Woodruff	do			.50				
Midvale	Salt Lake	6.5	9.2	1.00	10	-*		
Castlerock	Summit	6.0	19.5	1.38	8	-*		
Henefer	do	3.0	13.8	2.18	84	+		
Park City	Pine View	10.0	20.0	2.20				
do	Tooele	2.0	8.8	.96	8	-		
Government Creek	do	8.0	8.0	1.07				
Ibapah	do		4.0	.40				
Low	Tooele	6.0	18.0	1.73	24			
American Fork	Utah	4.0	9.0	1.00				
Elberta	do	2.5	3.8	.45				
Lehi	do			.78	24	*		
Payson	do		14.0	1.35				
Santaquin	do	9.0	20.0	1.77				
Spanish Fork	do	8.0	18.0	1.84				
Thistle	do	9.0	22.2	2.47	20	+		
Heber	Wasatch	6.0	16.0	1.62				
do	do	10.0	20.8	2.44				
Snake Creek	do			.50	15		*	
Ordgen	Weber			.92			*	
Riverville	do	4.5	4.5	.80				
Sevier Lake Watershed.								
Beaver	Beaver	2.2	10.5	.97	24	-		
Minersville	do	4.0	8.6	.96	8	*		
Nada	do	3.2	7.5	.99	11	+		
Modena	Iron	4.0	5.3	.80	5	+		
Levan	Juab	7.5	11.3	1.14				
Mills	do	3.0		.42	5	+		
Black Rock	Millard	2.0	3.5	.80	24	+		
Deseret	do	0	T	.55				
Filmore	do		17.5	1.63				
Kanosh	do	8.0	10.0	1.44	30	+		
Scipio	do		10.0	1.32				
Manti	Sanpete	6.0	8.5	.82	46	*		
Moroni	do	5.5	8.0	1.00				
Utah Experiment Station	do	35.0	39.5	3.65				
Green and Colorado Rivers Watershed.								
Carbon			19.8	1.61				
Sunnyside	do	7.0	9.5	1.11				
Duchesne	do	4.0	8.0	.72				
Emery	do			.70				
Tropic	Garfield		15.2	1.84				
Orderville	Kane	5.0	11.0	1.62				
Blanding	San Juan		28.0	3.24				
Monticello	do	90.0	35.0	4.50				
Ft. Duchesne	Uinta	8.5	9.1	.52				
Manila	do	3.0	18.6	.76				
Vernal	do			.72				
Teadale	Wayne	3.0	5.0	.81				
Enterprise	Washington	9.0	15.0	2.73				
Hurricane	do	4.0	4.0	1.11				
New Harmony	do	20.0		3.68				
Springdale	do			1.06				

+ indicates more; - indicates less, and * indicates average.

Total Precipitation, Inches, December, 1915.



U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

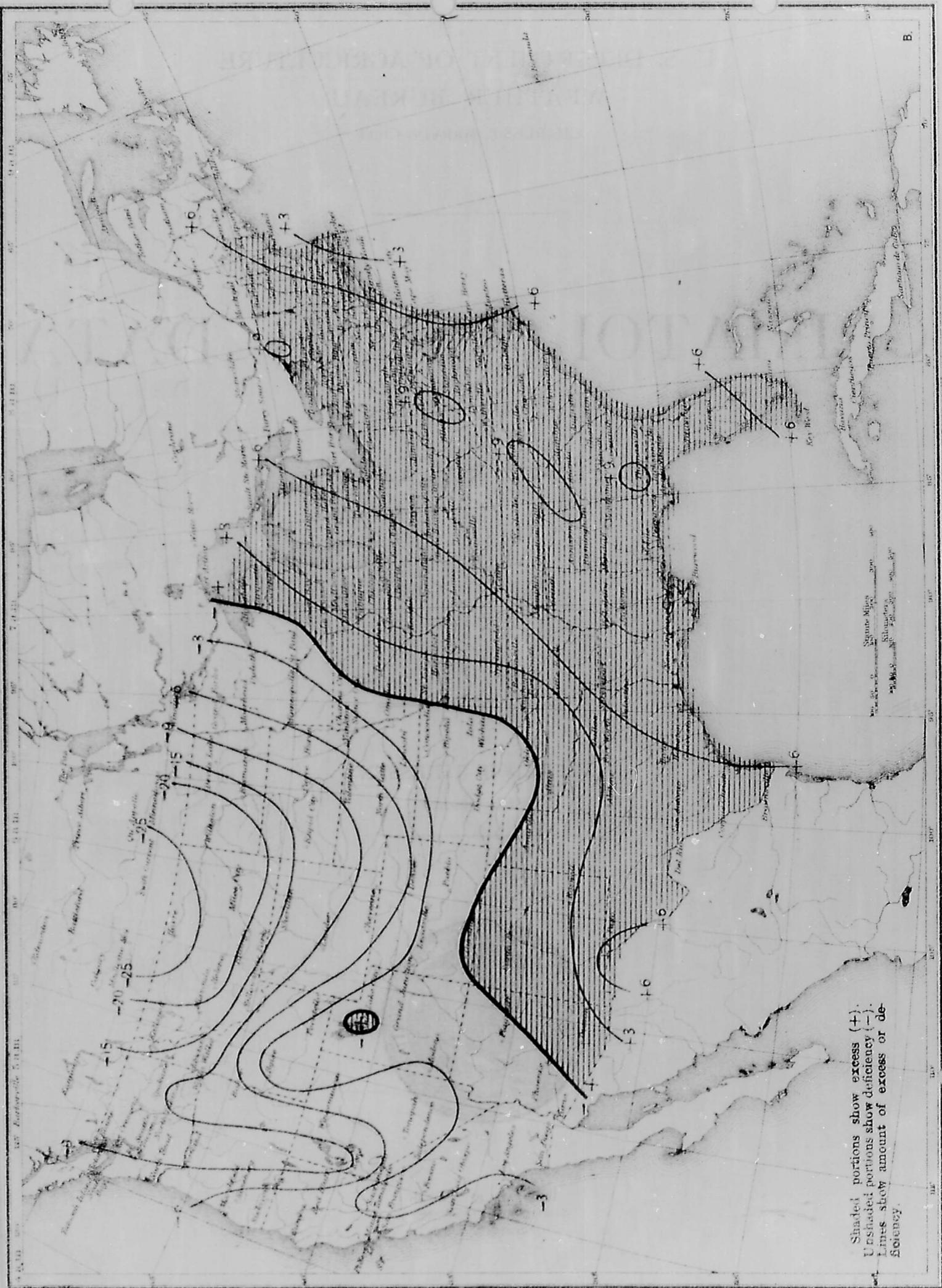
JANUARY, 1916

BY
ALFRED H. THIESSEN
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
FEBRUARY 16, 1916

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Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Section Director.

VOL. XVIII. SALT LAKE CITY, UTAH, JANUARY, 1916. No. 1.

GENERAL SUMMARY.

This month like the corresponding month of last year was very cold. There was an unusual amount of storms, and the precipitation for the State was the heaviest on record for January, being in marked contrast to the same month last year which was somewhat less than normal. At the end of the month the snow cover was the deepest known for years. As there was more wind than usual, the snow was piled in unusually high drifts, even on the lower levels. Reports of snow in the mountains were very encouraging; it was in good condition for late keeping, insuring a good water supply for next spring and summer. The heavy precipitation, while beneficial to the irrigating and dry farmer, was hard on the stock raiser. The heavy snows covered the ranges, and combined with the cold weather caused considerable losses in sheep and cattle. Feeding was necessary in most places.

A very severe wind storm occurred on the night of the 27-28th, causing damage in the southeastern part of the State by blowing down or unroofing barns and destroying other less substantial structures.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 29.92 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.64 inches at Modena on the 31st.

The lowest was 28.91 inches at Salt Lake City on the 27th.

TEMPERATURE.

The monthly mean temperature for the State as determined from 78 stations was 22.9° , which is 3.3° below the normal. The local mean temperatures ranged from 9.9° at the East Portal of Strawberry Tunnel to 37.7° at Springdale. Every station having a record of ten years or more reported mean monthly temperatures below normal. The greatest deficiency was at Kelton whose mean was 14.2° , or 9.7° below normal. Nearly every station reported minimum temperatures below zero, but the lowest was only -32° at East Portal.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 71 per cent, and at 6 p. m. 72 per cent. At Modena at 6 a. m. it was 84 per cent, and at 6 p. m. 76 per cent.

PRECIPITATION.

The precipitation for the State averaged 3.12 inches, which is 1.78 inches above normal. Of 39 stations having normals, only 2 reported amounts below normal. The local monthly amounts varied from 0.29 inch at Bluff, on the San Juan River

in the extreme southeastern portion of the State, to 9.68 inches at Silver Lake, which is in Big Cottonwood Canyon in the Wasatch Mountains at an elevation of 8,700 feet. There were no well defined periods of precipitation, and the table shows some rain or snow every day of the month in some portion of the State. The heaviest precipitation occurred usually on the 17-18th and 27-28th. The greatest 24-hour amount was 2.00 on the 28th at Alton.

WIND.

The prevailing direction of the wind for the State was from the south. The average velocity at Salt Lake City was 8.5 miles per hour; the highest 48 miles per hour from the south on the 8th; and the prevailing direction from the northwest. At Modena the average velocity was 11.2 miles per hour; the highest 74 miles per hour from the south on the 27th; and the prevailing direction from the southwest.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 35 at Salt Lake City, and 54 at Modena.

For the State the average number of clear days was 7; partly cloudy, 7; and cloudy, 17.

COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Average precipitation.	Total snowfall.	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891	24.4	68	-19	0.85	6.9	5	17	6	nw.
1892	26.0	71	-23	0.94	8.3	3	13	8	10 nw.
1893	21.9	63	-24	1.18	18.8	6	13	8	n.
1894	23.0	60	-25	1.07	15.1	7	11	9	11 n.
1895	28.4	66	-17	0.81	3.0	4	12	9	10 n.
1896	26.1	68	-24	1.53	14.0	6	12	8	11 sw.
1897	16.9	69	-34	1.07	11.5	6	15	8	8 n.
1898	27.9	70	-21	1.14	9.8	6	11	10	10 sw.
1899	31.6	70	-10	0.43	2.1	3	15	7	9 sw.
1900	28.2	64	-26	0.69	4.0	4	15	7	9 sw.
1901	26.5	74	-38	0.71	7.3	4	15	7	9 n.
1902	27.0	66	-21	1.40	8.5	5	15	6	10 n.
1903	23.3	68	-23	0.83	8.6	4	14	8	9 n.
1904	28.9	71	-22	0.86	6.1	5	12	8	12 sw.
1905	25.3	70	-39	1.60	11.0	6	12	6	13 sw.
1906	28.0	66	-20	2.30	22.8	9	9	8	14 s-sw.
1907	27.8	80	-22	0.79	6.5	4	14	8	9 n.
1908	31.9	68	-32	2.88	12.2	8	10	9	12 sw.
1909	28.5	71	-33	2.01	13.4	9	11	7	13 s.
1910	22.7	64	-25	1.15	11.1	6	13	5	13 n.
1911	31.5	86	-23	2.38	9.6	8	9	8	14 s.
1912	27.6	69	-33	0.48	5.0	3	14	9	8 s.
1913	21.3	65	-50	0.68	8.8	4	14	8	9 s-sw.
1914	28.5	71	-33	2.01	13.4	9	11	7	13 s.
1915	22.7	64	-32	1.15	11.1	6	13	5	13 n.
1916	22.9	62	-32	3.12	31.5	11	7	7	17 s.

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.9 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1915.	{ 1st +4.7												
	{ 15th +5.0												

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CLIMATOLOGICAL DATA: UTAH SECTION

JANUARY, 1916.

Climatological Data for January, 1916.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, inches.			Number of days			Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	
										Ton.									
Alton.....	Kane.....	1	23.1	-2.7	45	23	-11	11	43	8.38	2.00	84.9	17	6	9	16	s.		
Beaver.....	Beaver.....	6,000	11	27.9	51	8	-16	31	44	2.40 +1.51	0.46	23.5	11	5	11	15	s.		
Black Rock.....	Millard.....	4,872	11	27.0	48	4	0	12	28	1.25 +0.57	0.40	14.5	7	3	9	19	sw.		
Blanding.....	San Juan.....	6,000	8	27.0	50	10	-5	12	49	3.60	0.89	25.2	12	6	6	6	n.		
Bluff.....	Boxelder.....	4,200	3	29.6	50	34	1	30	35	0.29	0.20	2.0	5	19*	0*	11*	sw.		
Brigham City.....	Sevier.....	4,305	3	25.2	50	34	1	30	35	2.81	0.60	29.1	13	..	..	..	N. Merrill Valentine.	
Burryville.....	Emery.....	6,800	4	28.0	48	..	..	..	..	..	..	..	..	..	..	..	F. R. Curtis.	
Castle Dale.....	Iron.....	5,500	16	30.4	-3.5	50	8	-38	31	36*	4.20 +3.48	1.00	..	8	..	..	Miss Zelina Jeffs.	
Cedar City.....	Tooele.....	5,750	10	29.4	48	28	-12	31	51	2.19 +1.40	0.74	17.8	12	6	13	12	Parley Dalley.		
Center	Boxelder.....	4,250	4	20.2	44	9	-20	21†	54	5.18	0.90	49.0	14	4	5	22	L. C. Peterson.		
Corinne.....	Millard.....	4,240	45	21.7	-3.2	42	-8	22	39	2.78 +1.37	1.15	28.8	7	5	6	20	Perry A. Clark.		
Deseret.....	Deseret.....	4,540	21	26.5	-1.5	51	3	-16	31	45	1.96 +1.45	0.75	17.0	10	5	8	18	S. W. Western.	
Duchesne.....	Wasatch.....	5,515	8	12.8	41	9	-26	29	45	2.17	0.40	28.0	12	2	14	15	M. M. Smith.		
East Portal	Utah.....	7,606	3	9.9	36	..	-32	..	..	6.06	..	75.0	..	..	..	..	Reclamation Service.	
Elberta.....	Emery.....	4,650	13	26.0	-2.7	48	34	-5	12	35	2.78 +1.74	0.65	33.0	15	6	7	18	D. C. Walkley.	
Emery.....	Emery.....	6,200	14	20.4	-5.8	48	28	-12	31	51	2.50 +2.09	0.60	25.0	9	1	0	30	H. C. Wickman.	
Farmington.....	Davis.....	4,268	14	28.4	-1.7	49	4†	1	29	40	3.37 +0.95	0.55	33.7	11	8	6	17	Chas. Boylin.	
Fillmore.....	Millard.....	5,100	23	28.7	-2.5	53	3	-10	31	40	2.33 +1.17	0.63	28.0	12	..	..	J. Starley.	
Ft. Duchesne.....	Uinta.....	4,941	27	10.6	-2.0	40	9	-28	29	44	2.01 +1.54	0.47	21.4	13	14	8	9	Geo. W. Dickson.	
Fruitland.....	Duchesne.....	6,725	5	15.6	40	..	-23	29	50	5.02	..	62.1	..	..	..	..	J. E. L. Carey.	
Garland.....	Boxelder.....	4,248	3	19.3	40	8	-8	28	35	2.21	0.62	34.2	12	6	7	18	J. T. Roberts.		
Garrison.....	Millard.....	4,850	11	24.5	-0.2	47	25	-20	30	43	1.65	0.40	34.0	7	..	..	..	Jas. F. Robison.
Government Creek	Tooele.....	5,277	14	23.7	-4.9	43	4	-9	30	33	3.35 +2.25	0.55	33.5	14	6	7	18	Walter James.	
Green River.....	Emery.....	4,080	15	21.2	-3.8	46	9†	-12	31	37	1.88 +1.19	0.29	13.2	9	7	10	14	E. E. Adams.	
Hanksville.....	Wayne.....	4,200	4	23.4	..	50	9	-5	12	45	1.43	..	5.5	4	21	4	6	F. J. Weber.	
Heber.....	Wasatch.....	5,593	22	17.2	-4.6	44	25	-20	12	40	4.06 +1.60	0.65	60.0	15	3	6	22	John Crook.	
Henefer.....	Summit.....	5,301	15	17.8	-5.9	47	25	-23	29	53	4.97 +2.46	1.45	54.0	20	7	5	19	Wm. Brewer.	
Ibapah.....	Tooele.....	7,500	10	21.2	..	49	8	-20	30	43	1.65	0.48	19.0	12	9	7	15	W. M. Chastain.	
Iosepa.....	Boxelder.....	4,356	4	20.8	..	52	4	0	9†	27	2.32	0.92	..	7	25	5	1	James K. Halemanu.	
Kanab.....	Kane.....	4,925	7	32.7	..	60	1	-6	31	42	5.51	1.00	30.0	17	..	..	..	D. D. Rust.
Keeton.....	Boxelder.....	4,230	35	14.2	-9.7	38	3	-18	29	43	1.65 +0.94	0.30	16.5	7	4	12	15	F. W. Klock.	
La Sal.....	San Juan.....	7,000	12	24.8	-1.4	45	4†	-5	12	27	1.78 +0.95	0.40	18.0	13	5	17	9	La Sal Live Stock Co.	
Leeds (near)	Washington.....	3,400	3	19.2	..	47	..	..	..	..	..	..	..	..	..	..	..	B. F. Anderson.
Lehi.....	Utah.....	4,550	7	25.4	..	45†	4†	-3†	12†	34†	3.06	..	20.5	11	4	11	11	Joseph Anderson.	
Lemay	Boxelder.....	4,221	4	20.2	..	38	4†	-16	22	46	1.18	..	12.5	6	6	9	16	E. J. Ineck.	
Levan.....	Juab.....	5,010	25	28.9	-1.1	47	3†	-9	31	42	5.01 +3.56	0.80	46.6	17	4	11	16	John C. Jensen.	
Logan.....	Cache.....	4,507	24	24.5	-0.2	47	3	-2†	17	34†	2.61 +0.88	0.75	23.9	9	6	6	10	Experiment Station.	
Low	Tooele.....	4,602	4	20.8	..	42	1†	10†	1†	20†	0.80	..	8.0	7	6	4	21	Art. Western Pacific Co.	
Lower American Fork	Utah.....	5,063	1	29.4	..	55	3	7	12†	30	2.86	..	25.5	16	6	5	20	W. S. Greenwood.	
Lower Mill Creek	Salt Lake.....	4,959	2	29.6	..	54	9	9	29†	26	3.44	..	50.0	16	7	4	20	D. Folker.	
Lucin.....	Boxelder.....	4,504	8	17.0	..	40	4†	-18	21	41	1.19	..	30.0	8	13	5	9	E. C. Puryear.	
Manila.....	Uinta.....	6,225	5	13.4	..	45	3	-20	17†	55	1.00	..	10.3	2	1	26	4	D. M. Nelson.	
Manti.....	Sanpete.....	5,575	20	22.8	-3.0	55	9	-10	31	39	2.43 +1.20	0.36	32.6	16	1	3	27	J. M. Anderson.	
Marysville.....	Plute.....	6,180	14	27.5	..	49	9	3	31	38	1.00	..	30.0	17	..	..	..	A. Soyka.
Meadowville	Rich.....	6,200	14	19.2	-3.6	44	3	-3	16	31	1.00	-1.70	0.30	23.0	7	9	2	20	J. S. Moffat.
Midlake	Boxelder.....	4,235	4	27.4	..	43	9	17	12	13	1.80	..	18.0	10	5	10	16	Stella M. Gibson.	
Midvale.....	Salt Lake.....	4,365	3	26.4	..	50	8	-2	29	36	3.08	..	33.1	14	7	9	15	E. D. Camomile.	
Milford.....	Beaver.....	4,962	7	29.0	..	48m	15	-14m	31	40m	1.95	..	15.6	3m	5m	10m	..	Delta Land & Water Co.	
Moab.....	Grand.....	4,000	25	28.6	-1.3	52	9	-3*	12†	32	3.52 +2.86	0.92	26.0	10	1	9	21	Henry Crouse.	
Mounticello.....	Iron.....	5,070	7	23.2	..	43	9	-10	31	38	2.70	..	27.0	6	4	18	8	U. S. Weather Bureau.	
San Juan.....	Boxelder.....	5,068	10	421.9	-2.2	49†	6†	-13†	21	48†	2.05	-1.51	0.80	28.9	12	10*	0*	16*	Dasil Smith.
Morgan.....	Sanpete.....	6,000	7	24.5	..	50	3	-7	31	34	4.59	..	37.3	20	5	4	22	B. F. Eliason.	
Mosida.....	Utah.....	4,510	3	25.2	..	50	9	-12	21†	47	2.35	..	25.5	5	12	14	..	Mosida Fruit Lands Co.	
Mountain Home.....	Uinta.....	6,000	2	16.0	..	39*	25	-10*	12	33*	4.70	..	26.0	8	9*	0*	11*	Oscar Wilkins.	
Nephi (near)	Juab.....	5,119	10	..	..	..	..	..	..	1.96	..	0.40	..	7	..	..	..	J. W. Jones.
Oak City.....	Millard.....	4,900	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Jos. L. Anderson.
Ogden.....	Weber.....	4,310	44	26.7	-2.5	49	9	3	31	28	2.25 +0.64	0.32	..	12	9	6	16	Ralph Shorten.	
Panguitch.....	Garfield.....	6,560	3	18.0	..	47	23	11	12	44	3.52 +1.99	0.92	30.0	16	5	8	18	H. L. Strembel.	
Park City.....	Summit.....	7,000	10	27.9	-1.4	50	3†	-9	31	38	2.76 +1.70	0.85	..	10	5	8	18	Alex Matheson.	
Parowan.....	Iron.....	5,970	24	27.9	..	50	8	9	12	22	1.96 +0.61	0.52	19.8	15	3	7	21	W. S. Hall.	
Pasadena Ranch	Pine View	5,181	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Granville Deming.
Pinto.....	Washington.....	6,385	3	18.8	..	47	23	-15	31	47	4.00	..	40.0	8	6†	11	15†	J. H. Harrison.	
Price.....	Carbon.....	5,597	17	27.2	-0.5	46	22	-27	12	64	3.59 +2.24	11	4	16	8	..	Walter Bass.
Provo.....	Utah.....	4,532	21	26.8	-2.4	50	19	-11	12	44	3.52 +1.99	0.92	30.0	16	5	5	21	Reclamation Service.	
Richfield.....	Sevier.....	5,350	21	27.6	-0.4	58	3†	0	31	44	1.90 +0.65	0.60	18.5	15	3	10	8	Simon Christensen.	
Riverville	Weber.....	4,310	2	26.2	..	48	9	0	30	30	1.78	..	18.0	11	9	4	18	Eugene Bone.	
St. George.....	Washington.....	2,880	22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	J. E. Larson.
Saltair.....	Salt Lake.....	4,220	11	27.4	-1.6	54	9	9	12	35	2.01 +0.63	0.28	18.2	17					

CLIMATOLOGICAL DATA: UTAH SECTION

JANUARY, 1916.

Climatological Data for January, 1916.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.					Precipitation, inches.			Number of days			Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	
Alton.	Kane.	1	23.1	-2.7	45	23	-11	11	43	8.38	2.00	84.9	17	6	9	16	s.	Wm. M. Cox.		
Beaver.	Beaver.	6,000	11	27.9	-2.7	51	8	-16	31	44	2.40	+1.51	0.46	23.5	11	5	11	15	S. Z. Jenkins.	
Black Rock.	Millard.	4,872	11	-	-	-	-	-12	31	1.25	+0.57	0.40	14.5	7	3	9	19	Agent Salt Lake Route.		
Blanding.	San Juan.	6,000	8	27.0	-	48	4	0	12	3.60	0.89	25.2	12	6	6	19	sw.	E. F. Thompson.		
Bluff.	San Juan.	4,200	3	29.6	-	50	10	-5	12	0.29	0.20	2.0	5	19*	0*	11*	s.	Perry A. Clark.		
Brigham City.	Boxelder.	4,305	3	25.2	-	50	3†	1	30	3.81	0.50	29.1	13	-	-	-	-	N. Merrill Valentine.		
Burrville.	Sevier.	6,800	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F. R. Curtis.		
Castle Dale.	Emery.	5,500	16	-	-	-	-	-	-	4.20	+3.48	1.00	-	8	-	-	-	Miss Zelina' Leffs.		
Cedar City.	Iron.	5,750	10	30.4	-3.6	50	8	-3°	31	36°	2.19	+1.40	0.74	17.8	12	6	13	12 sw.	Parley Dalley.	
Center. ††	Tooele.	4,260	4	20.2	-	44	9	-20	21†	54	5.13	-	0.90	49.0	14	4	5	22	s.	L. C. Peterson.
Corinne.	Boxelder.	4,240	45	21.7	-3.2	42	3†	-8	22	3.78	+1.37	1.15	28.8	7	5	6	20	s.	A. C. Murphy.	
Desert.	Millard.	4,641	20	26.5	-1.5	61	3	-16	31	45	1.96	+1.45	0.75	17.0	10	5	8	18	s.	S. W. Western.
Duchesne.	Duchesne.	5,515	8	12.8	-	41	9	-26	29	4.21	-	0.40	28.0	12	2	14	15	s.	M. M. Smith.	
East Portal. ††	Wasatch.	7,606	3	9.9	-	36	-	-32	-	6.06	-	-	75.0	-	-	-	-	Reclamation Service.		
Elberta.	Utah.	4,650	13	28.0	-2.7	48	3†	-5	12	35	2.73	+1.74	0.65	33.0	15	6	7	18	s.	D. C. Walkney.
Emery.	Emery.	6,200	14	20.4	-5.8	48	28	-12	31	5.20	+2.09	0.60	25.0	9	1	0	20	n.	H. C. Wickman.	
Farmington.	Davis.	4,268	14	28.4	-1.7	49	4†	-1	29	3.87	+0.95	0.55	33.7	11	8	6	17	n.	Chas. Boylin.	
Fillmore.	Millard.	5,100	23	28.7	-2.5	53	3	-10	31	4.00	+1.17	0.63	28.0	12	-	-	-	w.	J. J. Starley.	
Ft. Duchesne.	Uinta.	4,941	27	10.6	-2.0	40	9	-28	29	4.01	+1.54	0.47	21.4	13	14	8	9	w.	Geo. W. Dickson.	
Fruitland.	Duchesne.	6,725	5	-	-	40	-	-23	29	6.02	-	-	62.1	-	-	-	-	s.	J. T. Roberts.	
Garland.	Boxelder.	4,248	3	19.3	-	40	8	-8	28	3.21	-	-	34.2	12	6	7	18	s.	Jas. F. Robison.	
Garrison.	Millard.	4,850	11	-	-	-	-	-	-	3.39	-	-	34.0	7	-	-	-	w.	Walter James.	
Government Creek. ††	Tooele.	5,277	14	23.7	-4.9	49	4	-9	30	3.35	+2.25	0.55	33.5	14	6	7	18	s.	E. E. Adams.	
Green River.	Emery.	4,080	15	21.2	-3.8	46	9†	-12	31	3.88	+1.19	0.29	13.2	9	7	10	14	sw.	F. J. Weber.	
Hanksville.	Wayne.	4,200	4	23.4	-	50	9	-5	12	4.43	-	-	5.5	4	21	4	6	sw.	John Crook.	
Heber.	Wasatch.	5,593	22	17.2	-4.6	44	26	-20	12	4.00	+1.60	0.65	60.0	15	3	6	22	n.	Wm. Brewer.	
Henefer.	Summit.	5,301	15	17.8	-5.9	47	26	-23	29	5.83	+2.46	1.45	54.0	20	7	5	19	n.w.	W. M. Chastain.	
Ibapah.	Tooele.	7,500	10	21.2	-	49	8	-20	30	4.65	-	-	19.0	12	9	7	15	sw.	James K. Halemanu.	
Iosepa.	Tooele.	4,356	4	20.8	-	52	4	0	9†	2.7	2.32	-	0.92	-	7	25	5	1	s.	D. D. Rust.
Kanab.	Kane.	4,925	7	32.7	-	60	1	-6	31	4.51	-	-	30.0	17	-	-	-	w.	F. W. Klock.	
Kelton.	Boxelder.	4,230	35	14.2	-9.7	38	3	-18	29	1.65	+0.04	0.30	16.5	7	4	12	15	n.	La Sal Live Stock Co.	
Le Sal.	San Juan.	7,000	12	24.8	-1.4	46	4†	-5	12	2.78	+0.96	0.40	18.0	13	5	17	9	n.	B. F. Anderson.	
Leeds (near). ††	Washington.	3,400	3	-	-	-	-	-	-	6.96	-	1.40	-	9	3	0	28	n.	Joseph Anderson.	
Lehi.	Utah.	4,550	2	25.4	-	45†	4†	-3†	12†	3.47	-	-	20.5	11	4	11	11	n.w.	E. J. Ineck.	
LeMay.	Boxelder.	4,221	4	20.2	-	38	4†	-16	22	4.6	1.18	-	12.5	6	6	9	16	s.	John C. Jensen.	
Levan.	Juab.	5,010	25	23.9	-1.1	47	3†	-9	31	5.01	+3.50	0.80	46.6	17	4	11	16	s.	Experiment Station.	
Logan.	Cache.	4,507	24	24.5	-0.2	47	3†	-2°	17	3.41	+2.88	0.75	23.9	9	6	6	10	n.s.	Art, Western Pacific Co.	
Low. ††	Tooele.	4,602	4	20.8	-	42	1†	104	1†	20	0.80	-	0.20	8.0	7	6	4	21	s.	W. S. Greenwood.
Lower American Fork. ††	Utah.	5,063	1	29.4	-	55	3	7	12	3.86	-	-	25.5	16	6	5	20	n.s.	D. Folker.	
Lower Mill Creek. ††	Salt Lake.	4,950	29	20.0	-	54	9	9	20†	2.84	-	-	50.0	16	7	4	20	s.	E. C. Puryear.	
Lucin.	Boxelder.	4,504	8	17.0	-	40	4†	-18	21	4.19	-	-	30.0	8	13	13	5	n.	D. M. Nelson.	
Manila.	Uinta.	6,225	5	13.4	-	45	3	-20	17†	5.55	-	-	10.3	2	1	26	4	s.	J. M. Anderson.	
Manti.	Sanpete.	5,575	20	22.8	-3.0	55	9	-10	31	3.99	+1.20	0.80	32.6	16	1	3	27	s.	A. Soyka.	
Marysville.	Pluto.	6,180	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	w.	J. S. Moffat.	
Meadowlake. ††	Rich.	6,200	14	19.2	-8.6	44	3	-3	16	31	1.00	-1.70	0.80	23.0	7	9	2	20	n.	Stella M. Gibson.
Midlake.	Boxelder.	4,238	4	27.4	-	48	9	-17	12	1.80	-	-	18.0	10	5	10	16	n.e.	E. D. Camomile.	
Midvale.	Salt Lake.	4,365	3	26.4	-	50	8	-2	29	3.08	-	-	33.1	14	7	9	16	s.	Delta Land & Water Co.	
Millford.	Beaver.	4,962	7	29.0	-	48 ^m	15	-14 ^m	31	4.00	1.95	-	15.6	-	-	-	-	w.	Henry Crouse.	
Moss.	Grand.	4,000	25	28.6	-1.3	52	9	-3°	12†	3.82	+2.80	0.92	26.0	10	1	9	21	n.s.	U. S. Weather Bureau.	
Modena.	Iron.	5,479	14	24.4	-3.1	44	8	-17	12	3.87	+2.74	1.19	21.1	13	17	7	7	w.	Dasil Smith.	
Monticello.	San Juan.	7,030	7	28.2	-	43	9	-10	31	2.70	-	-	27.0	6	4	18	9	sw.	E. H. Barton.	
Morgan.	Morgan.	5,698	10	21.9	-2.2	40 ^d	6†	-18 ^d	21	4.81	2.05	-1.51	0.80	28.9	12	10 ^a	0 ^b	16 ^c	n.w.	Dasil Smith.
Moroni.	Sanpete.	6,000	7	24.5	-	50	8	-7	31	4.59	-	-	37.3	20	5	4	22	sw.	B. F. Eliason.	
Mosida.	Utah.	4,310	3	25.2	-	50	9	-12	21†	4.7	2.35	-	0.98	25.5	5	12	14	n.	Mosida Fruit Lands Co.	
Mountain Home.	Duchesne.	6,000	2	*16.0	-	39 ^a	25	-10 ^a	12	3.83	4.70	-	-	26.0	8	19 ^a	0 ^b	11 ^c	w.s.	Oscar Wilkins.
Nephil (near).	Juab.	5,119	10	-	-	-	-	-	-	1.95	-	-	0.40	-	7	-	-	n.s.	J. W. Jones.	
Oak City.	Millard.	4,900	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n.s.	Ralph Shorten.	
Ogden.	Weber.	4,310	44	26.7	-2.5	49	9	3	31	2.25	+0.64	0.82	-	-	12	9	6	16	n.	H. L. Strembel.
Panguitch.	Garfield.	6,600	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n.s.	Alex Matheson.	
Park City.	Summit.	7,000	10	27.9	-1.4	50	3†	-9	31	3.18	+1.76	0.85	23.0	10	5	8	18	s.	W. S. Hall.	
Parowan.	Iron.	5,970	24	27.9	-1.4	50	3†	-9	31	3.15	-	-	24.6	10	2	13	16	sw.	Granville Deming.	
Pasadena Ranch. ††	Iron.	5,181	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n.s.	J. H. Harrison.	
Pine View. ††	Summit.	6,835	3	18.8	-	47	23	-15	31	4.00	-	-	-	-	-	-	-	n.s.	Walter Bass.	
Pinto.	Washington.	5,907	17	27.2	-0.5	46	22	-27	12	3.59	+2.24	-	-	-	11	4	16	8	n.s.	Reclamation Service.
Price.	Carbon.	5,557	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n.s.	Simon Christensen.	
Provo.	Utah.	4,532	21	26.8	-2.4	50	19	-11	12	4.4	3.52	+1.99	0.92	30.0	16	5	6	21	s.	Eugene Bone.
Richfield.	Sevier.	6,350	21	27.0	-0.4	58	3†	0	31	4.40	1.30	+0.65	0.60	18.5	5	13	10	8	n.w.	Ray Smith.
Riverville.	Weber.	4,310	2	26.2	-	48	9	0	30	3.78	-	-	18.0	11	9	4	18	s.	J. E. Larson.	
St. George.	Washington.	2,880	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	n.s.	U. S. Weather Bureau.	
Saltair.	Salt Lake.	4,220	11	27.4	-															

Daily Precipitation for January, 1916.

Daily Temperatures for January, 1916.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Black Rock.....	Maximum	-2	22	25	32	25	20	1	19	15	20	15	-4	10	21	28	25	20	18	20	5	8	20	22	30	31	22	19	22	10	-7	-12	16.1	
Blanding.....	Minimum	31	32	42	48	34	41	43	45	35	38	32	25	30	37	38	33	40	37	37	34	36	36	36	35	35	36	36	26	6	10	31.6		
Burrville.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.3	
Castle Dale.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corraine.....	Maximum	26	39	42	42	35	30	35	37	38	41	29	23	30	30	35	31	28	36	36	30	27	31	37	39	28	31	25	22	22	32.6			
Deseret.....	Minimum	9	20	23	31	10	5	7	5	12	20	15	15	17	21	-3	-4	9	24	17	-5	-8	10	20	23	13	0	20	-6	5	11	10.8		
Duchesne.....	Maximum	36	39	51	45	39	35	39	48	46	41	28	29	36	38	45	36	33	34	37	35	26	40	43	45	43	30	29	37	27	27	37.0		
Gilberta.....	Maximum	20	32	32	38	37	33	23	18	41	30	24	20	19	27	25	14	19	28	31	15	14	22	25	31	30	26	32	19	20	16	24.9		
Gov. Creek.....	Maximum	30	40	48	47	40	35	38	48	47	37	28	27	28	34	41	32	25	32	35	30	20	39	43	40	41	28	30	31	26	25	35.0		
Hermey.....	Maximum	28	35	33	33	25	24	10	20	26	16	7	5	19	26	28	15	13	21	25	2	4	22	24	31	21	10	14	-2	6	-4	17.0		
Hillmore.....	Maximum	33	38	53	43	47	38	40	43	50	38	29	40	40	34	42	46	28	48	40	35	43	46	50	48	42	38	38	25	40.1				
H. Duchesne.....	Maximum	26	30	31	21	32	35	28	23	40	31	30	22	16	15	20	23	22	20	20	15	8	9	16	25	30	31	31	16	12	8	23.2		
Hoodoo.....	Minimum	-9	9	16	-1	13	15	18	9	11	14	-8	-10	-10	-3	-12	-7	-7	-3	-7	-18	-22	-7	11	11	9	-4	10	-28	-11	-26	-2.1		
Jruitland.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Government Creek.....	Maximum	27	37	42	43	36	33	38	41	42	31	22	21	29	30	46	28	26	37	33	28	29	36	40	39	38	37	32	35	24	21	20	32.7	
Green River.....	Maximum	9	21	18	29	23	16	16	23	23	20	1	-4	14	19	26	16	8	5	19	32	33	13	5	14	0	-9	-7	14.7					
Ienefer.....	Maximum	27	36	29	23	31	32	28	25	46	43	37	26	21	23	35	32	28	31	41	36	30	36	33	46	33	44	20	27	21	32.1			
Kanab.....	Maximum	6	6	8	6	9	19	12	19	18	8	20	-1	-4	11	8	19	24	17	3	2	5	4	21	24	31	21	27	8	3	-12	10.3		
Kelton.....	Maximum	26	39	42	45	35	33	27	31	43	25	30	17	28	29	32	28	10	20	32	28	20	30	32	31	20	33	21	30.1					
Kayenta.....	Maximum	5	20	12	29	2	7	-12	0	18	1	-1	-12	11	17	25	8	-1	6	4	-2	20	-14	13	29	31	13	6	12	-23	5	0	5.5	
Kapah.....	Maximum	36	34	47	42	39	36	40	49	45	31	28	24	27	35	40	27	27	27	33	31	31	41	45	39	36	28	31	25	26	29	34.1		
Kanab.....	Minimum	1	7	24	30	24	6	0	11	22	14	4	-2	8	20	12	12	11	14	6	-11	8	6	23	18	19	9	13	-11	-14	8.3			
Kayenta.....	Maximum	60	58	56	51	49	45	43	50	44	37	33	35	44	45	44	46	45	48	51	42	44	49	51	45	43	48	47	36	34	25	45.1		
Kelton.....	Maximum	20	25	21	18	13	25	20	26	27	17	-5	12	29	31	32	30	25	21	19	22	20	29	28	18	12	11	6	20.3					
Keweenaw.....	Maximum	22	32	38	37	26	26	35	34	36	30	26	26	28	30	32	30	20	17	13	20	35	36	21	25	26	27	13	21	26.7				
Keweenaw.....	Minimum	6	1	10	19	1	-6	4	17	12	9	9	-7	1	10	13	-13	-5	9	19	-9	-14	-14	7	12	6	-4	10	-8	-18	-12	5	1.6	
Keweenaw.....	Maximum	27	28	41	45	37	32	34	44	40	35	28	21	25	28	38	32	31	37	37	32	30	45	41	35	33	25	26	19	12	32.6			
Keweenaw.....	Minimum	6	15	23	28	27	22	18	22	32	18	18	20	-5	3	11	26	24	22	28	17	14	12	11	20	27	28	22	20	15	1	8	-3	17.1
Keds (near) §§.....	Maximum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lemay.....	Maximum	22	18	31	38	35	32	35	36	36	33	28	30	35	35	21	30	27	16	8	30	38	33	30	24	25	18	15	28	29.0				
Lewiston.....	Maximum	8	7	18	30	20	15	22	20	25	23	16	12	18	24	28	5	11	16	14	-5	-8	-16	0	10	22	16	18	5	-15	0	11.4		
Lewiston.....	Minimum	27	39	47	42	35	32	31	40	47	35	27	23	30	31	42	35	22	34	32	24	40	42	37	28	44	30	24	15	33.5				
Logan.....	Maximum	5	25	24	23	23	25	1	9	26	13	10	-1	11	21	30	22	15	21	14	10	-4	2	12	21	31	20	12	21	2	7	-9	14.3	
Logan.....	Minimum	32	37	47	43	33	32	33	35	35	46	38	30	25	30	29	30	15	27	32	30	27	30	40	42	37	35	32	26	24	21	32.7		
Lov. §§.....	Maximum	6	29	28	30	19	13	15	25	24	20	17	8	17	27	25	-2	23	12	7	5	6	21	31	15	4	7	10	10	16	3			
Lov. §§.....	Minimum	42	32	22	23	17	31	38	42	31	18	21	32	34	21	28	32	27	18	22	21	28	32	35	30	21	24	20	22	24	26.4			
Lucin.....	Maximum	10	22	16	17	12	24	24	31	12	14	25	12	14	25	12	13	14	12	10	12	15	18	20	18	14	10	13	14	15.1				
Lucin.....	Minimum	-10	2	13	18	6	6	13	16	16	16	7	7	1	10	16	13	16	5	3	5	22	0	-2	29	-12	8	5	5.2					
Manilla.....	Maximum	-8	2	5	29	10	10	-4	2	10	1	-3	-8	-5	4	2	-4	-20	-15	-9	-8	8	16	5	11	0	5	-20	-18	-20	-1.6			
Manti.....	Maximum	32	36	38	47	40	35	37	47	52	47	38	27	24	26	37	35	30	34	45	46	43	33	37	42	38	28	22	33	35.8				
Meadowville.....	Maximum	-1	10	18	22	14	18	0	16	26	9	7	-9	5	16	5	18	13	18	11	0	-6	1	15	24	18	8	14	8	-10	9.9			
Meadowville.....	Minimum	29	34	44	40	30	25	29	42	40	30	20	19	26	31	22	29	24	28	30	34	32	16	25	21	16	17	28.6						
Millford.....	Maximum	9	16	19	19	11	5	-2	12	18	14	9	-2	11	19	20	-3	0	7	8	8	5	23	22	27	10	-2	10	1	3	9.8			
Millford.....	Minimum	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Minneapolis.....	Maximum	36	38	45	47	40	36	37	47	52	47	38	27	24	26	37	35	30	34	49	48	48	38	31	39	40	33	44	36	35	36	37.5		
Minneapolis.....	Minimum	19	28	9	14	18	24	20	22	48	36	37	-3	-3	9	15	14	22	27	31	22	14	26	26	31	22	11	12						

JANUARY, 1916.

CLIMATOLOGICAL DATA: UTAH SECTION.

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Daily Precipitation for January, 1916.

Continued from page 5.

Stations.	Day of month.																														Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Provo	.05																																
Randolph	T.	T.	T.	.16	.23	.12			.51	.13				T.	T.	.23	*	.92	.21													.15	3.52
Reed									.25	.40				T.	.25	T.	.30	.1	.26		.46											2.07	
Revere	.20		.15		.12		.03	.16		.10				.60	.22		.45	.40															
Richfield																																	
Richmond	.09	.02	.04	.04																													
Riverville																																	
St. George	.03	T.		T.																													
Saltair	.01																																
SALT LAKE CITY ***	T.																																
Santaquin																																	
Scipio	.18																																
Scotfield	.04	.31		.27	.19	.14																											
Silver City																																	
Silver Lake																																	
Snake Creek	.49	.10		.28	.12				.37	.33	.39			T.	.06	.68	.34		.68	.70	.10											19.63	
Snowville																																	
Spanish Fork																																	
Springdale																																	
Standrod																																	
Sunnside	(C)	.30	.35	.05	T.	T.	.20	T.	.09	T.		T.		T.	.02	.01		.03	.16	.13		T.										0.99	
Teasdale	(C)																																
Thistle	.30																																
Thompsons	(C)																																
Tooele																																	
Tremonton																																	
Tropic	(C)																																
Trout Creek Ranger	(C)																																
University of Utah	.05																																
Utah Experiment Station	.20	.28																															
Vernal	.37	.01																															
Victor	(C)	.10																															
Watson (near)	(C)	.14																															
Wendover																																	
Whiskey Creek																																	
Winder																																	
Woodruff																																	
Woodside	(C)																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

*** Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight.

* Precipitation included in the next following measurement. † Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow.

All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

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SNOW CONDITIONS IN UTAH ENDING JANUARY 31, 1916.

GENERAL SUMMARY.

Nearly every correspondent reported the heaviest snow in January for many years, depths ranging as high as 108 inches. The condition of the snow varies, some reported that it was packed, and others that it was loose. Drifts occurred everywhere, and at some places they were very deep. All observers reported much more snow than at the last of January, 1915, more than the average, and that the prospects were excellent for a good water supply. The greater monthly amounts fell at

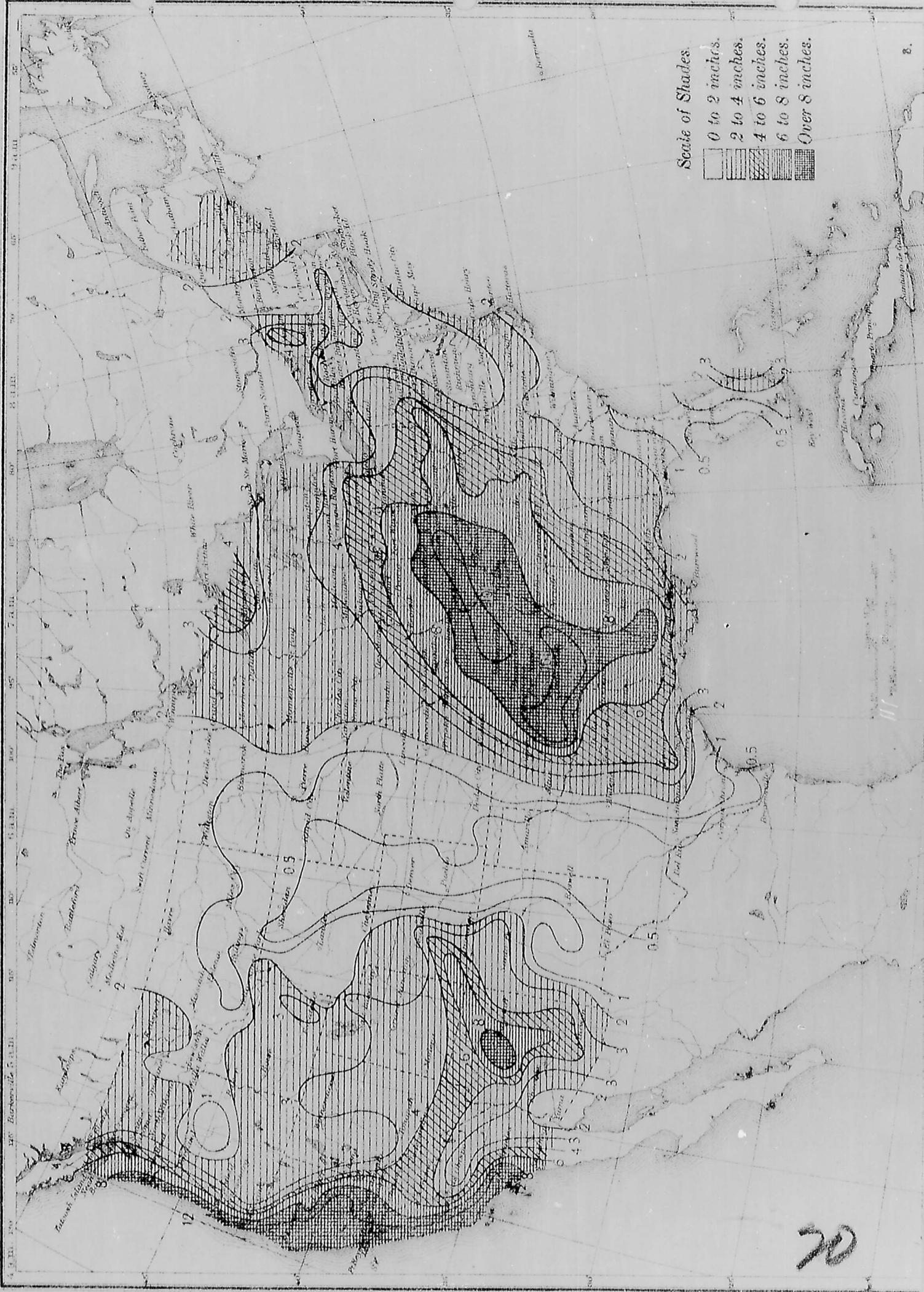
the greater elevations, Alton, Kane County, reported 84.9 inches which is the largest.

DEPTH OF SNOW IN INCHES ON NATIONAL FORESTS.

Stations,	Counties,	At station, (inches.)	Estimated depth in adjacent mountains or hills.	Sub-Basin.	Number of Stake	Depth at Stakes				
		On ground at end of month.	Total snowfall for the month.	Total precipitation for the month.	Inches.	Compared with last year.	Compared with av- erage.	Prospective water supply compared with average.		
<i>Great Salt Lake Watershed.</i>										
Brigham City	Boxelder	13.0	29.1	2.81	42	++	++	++	77	16
Corinne	do	15.0	28.8	2.78					78	22
Lucin	do	8.0	1.19	72	+	++	++		79	26
Snowville	do		28.0	2.03	48	+	++	++	80	16
Standrod	do	9.0	16.2	0.99		+	*	++	81	19
Tremonton	do		37.2	2.41	84	+	++	++	82	21
Lemay	do	5.0	12.5	1.18		+	++	++	83	..
Clarkston	Cache	18.0		2.45	120	+	++	++	84	..
Logan	do		23.9	2.61	66	+	++	++	85	..
Millville	do	14.0	30.0	3.06	72	+	++	++	86	..
Richmond	do	15.0	38.0	3.67	84	+	++	++	87	..
Meadowville	Rich	12.0	23.0	1.00	50	+	++	++	88	..
Randolph	do	20.0	18.5	2.07	60	+	++	++	89	..
Woodruff	do	14.0	29.0	1.58	72	+	++	++	90	..
Midvale	Salt Lake	10.0	33.1	3.08	36	+	++	++	91	..
Castlerock	Summit	36.0	48.0	2.40	84	+	++	++	92	..
Henefer	do	24.0	54.0	4.97	84	+	++	++	93	..
Pine View	do	25.0	40.0	4.00	66	+	++	++	94	..
Government Creek	Tooele	12.0	33.5	3.35	36	+	++	++	95	35
Ibapah	do	7.0	19.0	1.65	42	+	++	++	96	..
Tooele	do	9.0	42.8	4.74	36	+	++	++	97	..
Elberta	Utah	12.0	33.0	2.73	86	+	++	++	98	..
Lehi	do	12.0	20.5	3.06	150	+	++	++	99	..
Payson	do	44.0	44.0	3.93		+	++	++	100	..
Provo	do	5.0	30.0	3.52	48	+	++	++	101	..
Santaquin	do	15.0	31.8	4.77	108	+	++	++	102	..
Spanish Fork	do	12.0	54.5	4.19		+	++	++	103	..
Thistle	do	38.0	73.5	7.67	40	+	++	++	104	..
Snake Creek	Wasatch	42.0	78.8	6.77	108	+	++	++	105	..
Riverdale	Weber	8.0	18.0	1.78		..	..	..	106	..
<i>Sevier Lake Watershed.</i>										
Beaver	Beaver	5.0	23.5	2.40	48	+	++	++	107	..
Minersville	do	6.0	17.5	2.62	36	+	++	++	108	..
Nada	do	3.0	26.8	3.03	23	+	++	++	109	..
Modena	Iron	3.5	21.1	3.47	5	+	++	++	110	..
Parowan	do	9.0	2.76	5.76	54	+	++	++	111	..
Levan	Juab	23.0	46.6	5.01		+	++	++	112	..
Mills	do	12.0	20.0	2.12	30	+	++	++	113	..
Black Rock	Millard	2.0	14.5	1.25	30	+	++	++	114	..
Fillmore	do		28.0	2.88		+	++	++	115	..
Kanosh	do	7.0		2.01	36	+	++	++	116	..
Seipio	do		40.0	4.17	96	+	++	++	117	..
Whiskey Creek	do	9.5	1.88			*	*	++	118	..
Manti	Sanpete	8.9	82.6	2.43	72	+	++	++	119	..
Moroni	do	26.4	87.8	4.59	60	+	++	++	120	..
Utah Experiment Station	do	60.0	77.5	7.05	60	+	++	++	121	..
Joseph	Seyler	0		1.11	54	+	++	++	122	..
Richfield	do		18.5	1.80	72	+	++	++	123	..
<i>Green and Colorado Rivers Watershed.</i>										
Scofield	Carbon		75.0	3.88	60	+	++	++	124	..
Sunnyside	do	25.0	48.2	3.90	72	+	++	++	125	..
Duchesne	Duchesne	24.0	28.0	2.17	72	+	++	++	126	..
Myton	do	18.0	26.4	2.03	84	+	++	++	127	..
Hayden	do	18.0	29.7	2.38	48	+	++	++	128	..
Emery	Emery	24.0	25.0	2.50	84	+	++	++	129	..
Moab	Grand		26.0	3.62		*	*	++	130	..
Hatch	Garfield	16.0	29.0	3.71	42	*	*	++	131	..
Tropic	do		50.0	4.92	42	+	++	++	132	..
Alton	Kane	50.0	84.9	8.88	10	+	++	++	133	..
Ft. Duchesne	Uinta	16.0	21.4	2.01	72	+	++	++	134	..
Manila	do	4.0	10.3	1.00	36	+	++	++	135	..
Teasdale	Wayne	8.0	11.0	0.93	48	*	*	*	136	..
Enterprise	Washington	9.0	40.0	4.77	64	+	++	++	137	..
Hurricane	do	2.0	4.0	3.85	48	+	++	++	138	..
New Harmony	do		26.0	40.0	9.02	+	++	++	139	..
Pinto	do			3.59	18	+	++	++	140	..

+ indicates more; - indicates less, and * indicates average.

Total Precipitation, Inches, January, 1916.



U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU.

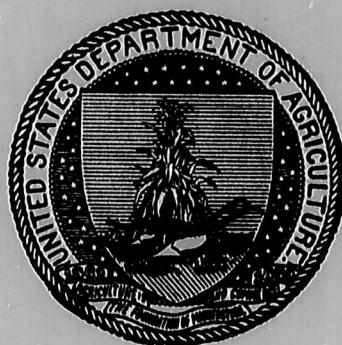
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

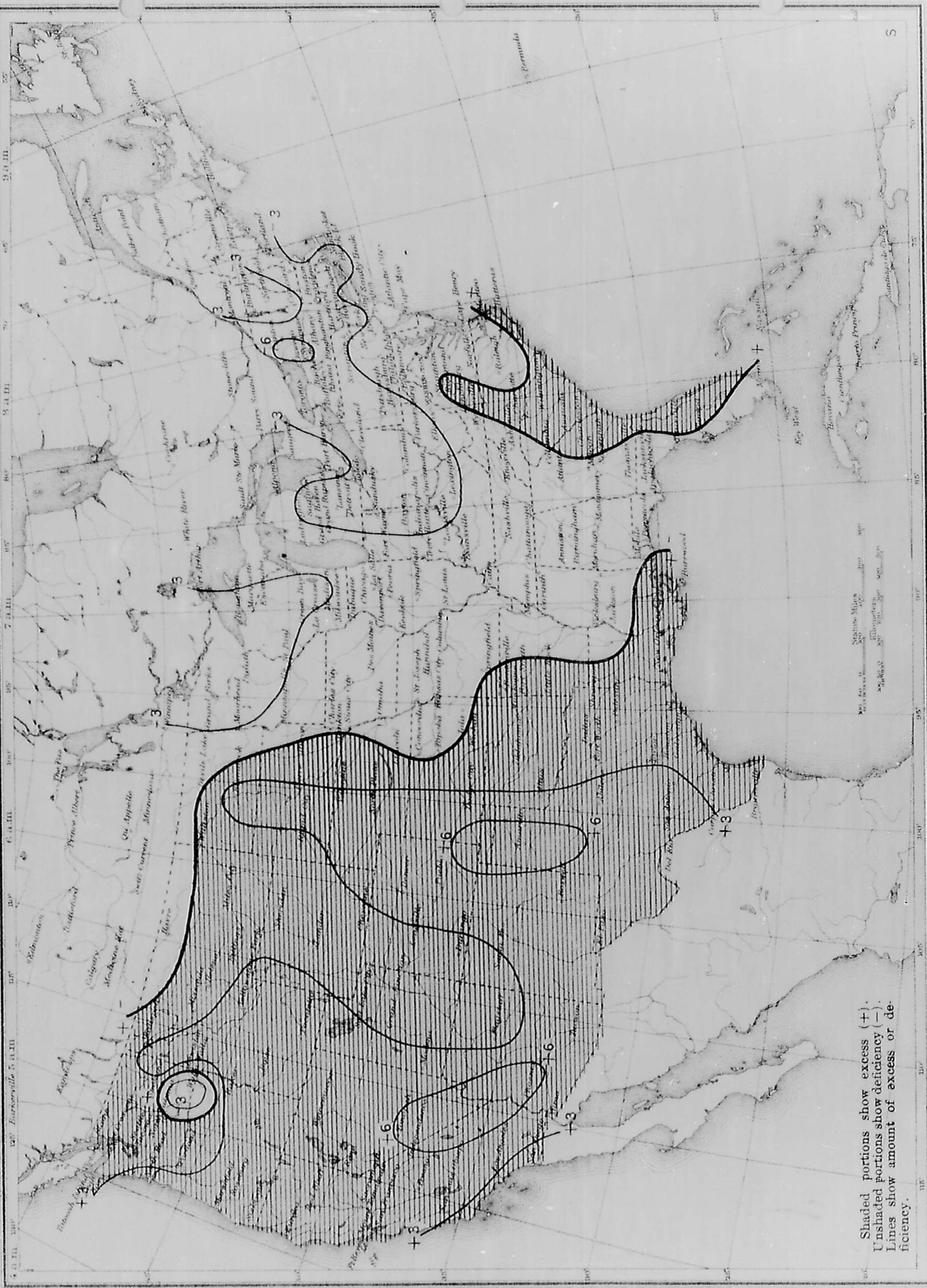
FEBRUARY, 1916

BY
ALFRED H. THIESSEN
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
MARCH 21, 1916

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Shaded portions show excess (+).
 Unshaded portions show deficiency (-).
 Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Section Director.

VOL. XVIII. SALT LAKE CITY, UTAH, FEBRUARY, 1916. No. 2.

GENERAL SUMMARY.

February was an unusually mild and pleasant month. The temperature averaged above normal, but not quite so high as that of February a year ago. The precipitation averaged nearly normal, and much less than that of the same month, 1915. The weather was so favorable that some plowing was done in the southeastern part of the State. The snow cover at the end of January was quite heavy, and stock was being fed generally; but the warm days of February melted much of the snow, especially at the lower levels, thus affording plenty of range for sheep, which was timely as feed was becoming scarce. Although melting was general the creeks did not rise, the water soaking into the ground as the snow melted. This was due to the relatively dry condition of the soil due to a very dry preceding summer and fall. There were an unusual number of foggy days during the month.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 30.15 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.68 inches at Modena on the 1st.

The lowest was 29.57 inches at Salt Lake City on the 29th.

TEMPERATURE.

The monthly mean temperature for the State as determined from 77 stations was 31.0° , which is 1.4° above the normal. The local means ranged from 5.2° at Castle Dale to 48.2° at Springdale. Of those stations having ten years or more of record, 8 reported monthly means below normal, and the remaining above. The greatest plus departure was 7.3° at Beaver, whose mean was 38.3° ; and the greatest minus departure was 21.9° at Castle Dale, whose mean was 5.2° . The minimum temperatures for the month were nearly all recorded on the 1st, the lowest being -36° at Fort Duchesne. The maximum temperatures were recorded at various dates from the 6th to the last day of the month, the highest being 80° on the 9th at Black Rock.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 80 per cent, and at 6 p. m. 76 per cent. At Modena at 6 a. m. it was 83 percent, and at 6 p. m. 54 per cent.

PRECIPITATION.

The precipitation for the State averaged 1.21 inches, which is 0.06 inch below normal. The largest local amount was 6.17 inches at Silver Lake, while three stations reported only traces. Of 36 stations having normals only 9 reported amounts above, while 27 reported amounts below normal. There were two rainy periods, from the 1st to the 7th and from the 22d to the end of the month. The heaviest 24-hour amount was 1.85 inches at Tremonton on the 4th. The snowfall, especially at the higher elevations, was good. At the end of the month reports from the most reliable sources showed that in almost every instance the snow was drifted and frozen, and therefore in good condition for late melting.

WIND.

The prevailing direction of the wind for the State was from the southwest. The average velocity at Salt Lake City was 5.5 miles per hour; the highest 36 miles per hour from the northwest on the 27th; and the prevailing direction from the northwest. At Modena the average velocity was 8.4 miles per hour; the highest 40 miles per hour from the southwest on the 27th; and the prevailing direction from the southwest.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 37 at Salt Lake City, and 79 at Modena.

For the State the average number of clear days was 13; partly cloudy, 7; and cloudy, 9.

CORRECTIONS.

December, 1915: Blanding, monthly mean temperature should be 29.8° .

COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Average precipitation.	Total rainfall. Rainy (0.01 inch or more).	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.			Clear.	Partly Cloudy.	Cloudy.	
1891									
1892	32.4	73	-34	0.77	4.6	4			
1893	26.6	70	-32	1.85	13.0	7	10	8	10 nw.
1894	20.9	68	-34	1.11	11.9				
1895	25.5	74	-33	1.25	10.0	4	16	6	6 sw.
1896	31.0	74	-16	0.46	3.0	2	17	6	6 n.
1897	27.0	63	-21	2.35	19.0	9	8	9	11 sw.
1898	29.1	79	-21	0.47	3.1	2	15	8	5 sw.
1899	28.8	77	-50	1.73	15.7	7	12	8	8 sw.
1900	32.2	73	-24	0.57	5.1	4	12	9	7 sw.
1901									
1902	31.0	76	-26	1.90	13.5	9	8	7	13 sw.
1903	34.1	74	-20	0.87	4.6	4	10	9	9 s.
1904	16.6	67	-39	0.75	7.4	4	17	5	6 n.
1905	34.2	89	-26	1.53	9.5	6	10	9	10 n.
1906	30.5	73	-35	1.67	8.6	7	11	7	10 n.
1907	33.7	84	-15	0.88	5.6	5	9	7	12 sw.
1908	40.4	86	-3	1.95	5.6	8	14	5	9 sw.
1909	31.2	80	-34	1.16	9.0	5	12	8	9 n.
1910	29.5	67	-32	2.15	18.6	7	9	8	11 s.
1911	27.8	73	-27	1.12	11.8	6	9	9	10 n.
1912									
1913	23.7	69	-30	1.42	13.6	7	10	8	10 n.
1914	33.3	84	-22	0.72	6.0	4	11	10	8 n.
1915	27.6	67	-31	1.36	14.4	6	11	8	9 n.
1916	29.6	70	-22	0.92	3.5	5	12	8	8 n.
	32.1	68	-20	2.04	12.6	8	9	7	12 s.
	31.0	80	-36	1.21	10.6	6	13	7	9 sw.

STORM OF JANUARY 27-28TH IN UTAH.

A storm of very unusual severity passed over Utah on the night of January 27-28th, 1916. This storm is deserving of special notice owing to the very low barometer observed and to the damage done. The lowest station pressure at Salt Lake City occurred at 10 p. m. on the 27th and was 24.63 inches, which reduced to sea level is 28.96 inches; the lowest previous sea level reading being 29.18 inches in March, 1904, and in November, 1905. At Modena the lowest station pressure occurred at 8:15 p. m. of the 27th and was 23.7 inches, which reduced to sea level was 28.91 inches, the lowest on record for that station.

Winds became very heavy at Salt Lake City and at Modena at about 8 p. m. and continued through the evening of the next day. At Modena the highest velocity for a 5-minute period was 74 miles from the south between 8 and 9 p. m. of the 27th. Considerable damage was done by these heavy winds at Cedar City, St. George, Enterprise and other towns in the southwestern portion of the State. This damage consisted in the unroofing of houses and barns and the carrying away of outbuildings.

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CLIMATOLOGICAL DATA: UTAH SECTION.

FEBRUARY, 1916.

Climatological data for February, 1916.

Stations	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.				Precipitation, inches.				Number of days				Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total Snowfall, unmeasured.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Pervading direction of wind.
Alton.....	Kane.....	7,000	1	33.1 + 5.9	59	24	-5	1	38	1.48 -1.32	0.35	6.5	6	14	10	5	s.	Wm. M. Cox.	
Beaver.....	Beaver.....	6,000	11	33.3 + 7.3	64 ^b	21 ^b	-2 ^b	1	44 ^b	0.94 -0.17	0.35	8.0	4	15	8	6	sw.	S. Z. Jenkins.	
Black Rock.....	Millard.....	4,872	11	42.4 +11.3	80	9	-4	1	48	0.30 -0.71	0.20	3.0	2	15	9	5	0	Agent Salt Lake Route.	
Blanding.....	San Juan.....	6,000	8	35.6.....	55	10 ^b	-6	1	27	0.60.....	0.30	.....	3	19	2	8	sw.	E. F. Thompson.
Bluff.....	Boxelder.....	4,200	3	40.2.....	64	27	7	1	41	0.05.....	0.03	T.	2	22	0	7	.....	Perry A. Clark.
Brigham City.....	Sevier.....	4,305	3	32.1.....	49	10	11	15	32	2.79.....	0.55	17.7	13	N. Merrill Valentine.
Burrville.....	Emery.....	6,800	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. R. Curtis.
Castle Dale.....	Iron.....	5,500	16	5.2 -21.9	31	17	-14	1 ^b	44	0.55 -0.24	0.25	.....	3	.....	.....	.....	.....	Miss Zel'a Jeffs.
Cedar City.....	Tooele.....	5,750	10	.....	50	12 ^b	-10	1	45	0.55.....	0.25	.....	5	16	4	9	s.	Parley Dalley.
Center....#	Boxelder.....	4,250	4	28.0.....	9	-2	1	28	1.41 +0.18	0.56	11.5	5	8	4	17	0	L. C. Peterson.		
Corinne.....	Millard.....	4,240	45	28.8 -1.2	45	11	-1	1 ^b	34	0.33 -0.47	0.17	T.	2	14	0	15	n.	A. C. Murphy.	
Deseret.....	Duchesne.....	4,541	20	35.8 + 4.6	59	46	-32	1	49	0.50.....	0.23	5.1	4	8	13	8	.....	S. W. Western.
Duchesne.....	Wasatch.....	5,515	8	12.8.....	44	6 ^b	-36	1	36	0.56 +0.08	0.24	8.0	6	16	2	11	w.	M. M. Smith.	
East Portal....#	Utah.....	7,606	3	.....	36	.....	-21	.....	.....	3.96.....	44.0	.....	.....	.....	.....	.....	.....	Reclamation Service.
Elberta.....	Emery.....	4,650	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. C. Walkay.
Emery.....	Davis.....	6,200	14	28.4 -2.1	52	10	-12	2	45	0.09 -0.64	0.09	3.0	1	.....	.....	.....	.....	H. C. Wickman.
Farnsworth.....	Millard.....	4,268	14	35.1 + 2.1	50	11 ^b	12	1	30	1.57 -0.85	0.31	11.7	8	11	5	13	sw.	Chas. Boylin.	
Fillmore.....	Uinta.....	5,100	23	37.0 + 3.0	60	7 ^b	6	1 ^b	34	1.12 -0.37	0.50	9.0	5	.....	.....	.....	.....	J. J. Starley.
Ft. Duchesne.....	Duchesne.....	4,941	27	9.9 -9.3	40	9 ^b	-36	1	36	0.56 +0.08	0.24	8.0	6	16	2	11	w.	Geo. W. Dickson.	
Fruitland.....	Wasatch.....	6,725	5	.....	.....	.....	.....	.....	.....	1.74.....	21.5	.....	.....	.....	.....	.....	.....	J. E. L. Carey.
Garland.....	Boxelder.....	4,248	3	26.8.....	42 ^a	10 ^b	2 ^b	27	29 ^b	2.98.....	0.69	21.0	12	19	3	16	0	J. T. Roberts.	
Garrison.....	Millard.....	4,850	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jas. F. Robison.
Government Creek....#	Tooele.....	5,277	14	33.2 + 2.5	50	11	-5	1	29	0.47 -0.89	0.18	3.1	8	19	3	7	n.s.	Walter James.	
Green River.....	Emery.....	4,080	15	28.4 -6.5	57	23	-17	1	38	0.07 -0.48	0.03	0.1	3	14	12	3	sw.	E. E. Adams.	
Hanksville.....	Wayne.....	4,200	4	33.8.....	62	27	0	1 ^b	40	0.50.....	0.50	.....	1	23	3	3	sw.	F. J. Weber.
Heber.....	Wasatch.....	5,583	22	25.5 + 1.5	50	9 ^b	-20	1	40	1.95 -0.06	0.60	33.5	10	13	5	11	s.	John Crook.	
Henefer.....	Summit.....	5,301	15	26.4 + 0.2	50	9	-13	1	46	2.03 -0.28	0.49	18.5	12	13	7	9	n.w.	Wm. Brewer.	
Ibapah.....	Tooele.....	7,500	10	33.2.....	55	11 ^b	-6	1	44	0.36.....	0.18	4.5	4	14	10	5	0	W. M. Chastain.	
Iosepa.....	Emery.....	4,356	4	31.5.....	48	16 ^b	9	1	27	1.06.....	0.39	.....	6	24	5	0	n.	James K. Halemann.
Kanab.....	Kane.....	4,925	7	40.0.....	64	25	-5	1	40	0.94.....	0.29	1.0	6	.....	.....	.....	.....	D. D. Rust.
Kelton.....	Boxelder.....	4,230	35	23.7 -5.7	43	11	-7	1	33	1.46 +0.80	0.40	14.6	8	5	8	16	0	F. W. Klock.	
La Sal.....	San Juan.....	7,000	12	31.2 + 2.7	49	9 ^b	-10	1	27	0.77 -0.32	0.36	7.0	4	13	14	2	0	La Sal Live Stock Co.	
Leeds (near)....#	Washington.....	3,400	3	40.4.....	66	24	5 ^b	1	26	0.64.....	0.42	.....	2	22	0	7	.....	B. F. Anderson.
Lehi.....	Utah.....	4,550	2	34.8.....	63 ^a	19	1 ^b	1	41 ^b	1.84.....	0.40	.....	7	11	7 ^b	5	0	Joseph Anderson.
Lemay....#	Boxelder.....	4,221	4	30.0.....	45	7 ^b	8	28	23	0.59.....	0.25	5.0	5	6	6	17	0	E. J. Ineck.	
Levan.....	Juab.....	5,010	20	32.5 + 3.9	50	9	3	1	31	0.99 -0.55	0.25	2.5	7	9	13	7	.....	John C. Jensen.
Logan.....	Cache.....	4,507	24	30.7 + 4.2	50	10	4	13	31	2.52 +1.23	0.50	24.0	8	15	6	8	.....	Experiment Station.
Low....#	Tooele.....	4,602	4	28.9.....	45	9	15	1	21	0.81.....	0.10	2.0	3	7	3	19	0	Agt. Western Pacific Co.	
Lower American Fork....#	Utah.....	5,063	1	37.2.....	57	11	6	1	30	1.66.....	0.33	4.7	10	15	3	11	0	W. S. Greenwood.	
Lower Mill Creek....#	Salt Lake.....	4,959	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. Folker.
Lucin.....	Boxelder.....	4,504	8	27.0.....	52	10	-4	1 ^b	30	1.18.....	0.50	9.5	7	9	8	12	.....	E. C. Puryear.
Manila.....	Uinta.....	6,225	5	24.4.....	50	7	-10	1	35	T.	T.	0	12	17	0	.....	D. M. Nelson.	
Manti.....	Sanpete.....	5,575	20	30.8 + 2.5	55	9	-8	1	32	1.17 -0.16	0.22	7.4	8	13 ^b	2 ^b	13 ^b	.....	J. M. Anderson.
Marysville.....	Plute.....	6,180	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Soyka.	
Meadowville....#	Rich.....	6,200	14	23.2 + 1.4	49	10	-8	28	32	1.30.....	0.27	25.0	9	14	4	11	s.	J. S. Molat.	
Midlake....#	Boxelder.....	4,235	4	31.4.....	44	17	1	22	0.80.....	0.30	8.0	5	3	8	18	0	Stella M. Gibson.		
Midvale.....	Salt Lake.....	4,365	3	36.2.....	57	9	1	34	1.00.....	0.23	6.5	7	8	6	15	s.	E. D. Camomile.		
Mifflord.....	Beaver.....	4,962	7	37.6.....	63	11	-6	1	37	0.76.....	0.35	5.0	4	10	12	7	n.	Delta Land & Water Co.	
Moab.....	Grand.....	4,000	25	35.7 -0.7	60	27	2	1	34	0.45 -0.22	0.22	2.0	4	9	16	4	.....	Henry Crouse.
Modena.....	Iron.....	5,479	14	36.1 + 4.3	59	11	-8	1	36	0.52 -0.73	0.26	0.3	5	12	13	4	sw.	U. S. Weather Bureau.	
Monticello.....	San Juan.....	7,050	7	30.6.....	52	19 ^b	-11	1	32	0.47.....	0.27	.....	3	22	7	0	sw.	E. H. Barton.
Morgan.....	Morgan.....	5,068	10	30.8 + 4.4	53	11	-3	1	36	1.35 -0.99	0.35	16.5	9	12	5	12	0	Dasi Smith.	
Moroni.....	Sanpete.....	6,000	7	33.0.....	53	9	-4	1	31	1.89.....	0.40	8.0	9	14	1	14	0	B. F. Eliason.	
Mosida.....	Utah.....	4,510	3	32.7.....	50	18 ^b	-7	1	35	1.93.....	1.40	.....	4	13	10	6	.....	Mosida Fruit Lands Co.
Mountain Home.....	Duchesne.....	6,000	2	.....	.....	.....	.....	.....	.....	1.75.....	1.00.....	.....	3	.....	.....	.....	J. W. Jones.	
Nephi (near)....#	Juab.....	5,119	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jos. L. Anderson.	
Oak City.....	Millard.....	4,900	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Ralph Shorten.	
Orden.....	Weber.....	4,310	44	34.9 + 1.8	58	9	11	2	30	3.21 +1.63	0.70	.....	9	14	5	10	.....	H. L. Strembel.
Panguitch.....	Garfield.....	6,560	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Park City.....	Summit.....	7,000	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parowan.....	Iron.....	5,970	24	38.0 + 6.4	62	20	5	2	40	1.07 -0.27	0.50	1.0	5	14	10	5	.....	Alex Matheson.
Pasadena Ranch....#	Iron.....	5,131	1	32.5.....	50 ^b	15 ^b	-12 ^b	1	49 ^b	1.20.....	0.50	4.0	4	12	14	3	sw.	W. S. Hall.	
Pine View....#	Summit.....	6,335	3	25.3.....	50 ^b	11 ^b	-13	1	44	1.35 -0.08	0.75	0.8	5	15	10	4	n.	Granville Deming.	
Pinto.....	Washington.....	5,907	17	34.9 + 4.7	58	11 ^b	-18	1	41	0.94.....	0.04	0.04	1	16	8	5	.....	J. H. Harrison.
Price.....	Carbon.....	5,557	4	23.0.....	45	6	-18	1	41	0.44.....	0.56	27.0	7	6	3	20	n.	Wa ter Bass.	
Provo.....	Utah.....	4,532	21	35.8 + 4.2	57	9 ^b	0	1	33	2.33 +0.83	0.78	5.0	8	12	5	12	0	Reclamation Service.	
Richtefield.....	Weber.....	5,350	21	37.2 + 6.7	63	10	4	1	43	0.72 -0.12	0.30	0.30	4	21	3	5	ne.	Simon Christensen.	
Riverville....#	Washington.....	4,310	2	34.2.....	55	9	9	1	24	2.15.....	0.40	8.0	11	11	7	11	s.		

Daily precipitation for February, 1916.

Stations.	Day of month.																														Total.			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Alpine (C)			.30	.20		.10																											1.70	
Alton (C)				T.																													0.94	
Beaver																																		
Beaver Creek Nursery																																		0.09
Belknap Ranger Station† . . . . .			.10	.15																													0.72	
Bonmore																																		0.30
Big Plains (C)																																		0.60
Black Rock																																		0.05
Blanding (C)																																		2.79
Bluff (C)	.02	.06	.17	.40	.22	.11	.18	.01	.13																							0.96		
Brigham City																																		2.25
Burrville																																		0.60
Canaan (C)																																		0.61
Castle Dale (C)			.10	.35	.40	.30	.10	.05																								0.55		
Castle Rock																																		1.41
Cedar City																																		0.56
Cedar Fort																																		0.50
Center	T.	T.	T.	T.	.25	.05																										0.39		
Clarkston	T.	.28	.56	T.																													1.21	
Corinne																																		0.61
Cottonwood Nursery																																		0.96
Deep Creek																																		2.25
Desert																																		0.61
Duchesne (C)			T.	T.	.13	T.																											0.33	
East Portal (C)			T.																															0.50
Elberta																																		3.96
Elkhorn (C)			.09																														0.61	
Emery† (C)																																		0.67
Enterprise																																		1.57
Erikson																																		1.12
Farmington . . . . .		.11	.20	T.	.31	.15	T.	T.																									0.56	
Fillmore																																		0.80
Ft. Duchesne (C)			.05	*	*	*	*	*	*	*																							0.07	
Fruitland (C)		T.	.41	.69	.44	.02	.43		.12	.01																						2.98		
Garrison																																		1.74
Government Creek																																		0.50
Grantsville . . . . .			.03																														0.47	
Green River (C)																																		0.80
Grouse Creek																																		0.07
Hanksville (C)																																		0.50
Hatch																																		0.50
Hayden (C)		T.	.09	T.	.05																												0.50	
Heber	T.	.10	.60		.50	.05		T.	.05																								0.39	
Henefer . . . . .		.18	.20	.24	.29	.05	.04	T.	.05	.05																						1.95		
High Line City Creek	T.	.07	.41	.20	.50	.50			.14																							2.03		
Howell																																		3.04
Hurricane (C)																																		0.82
Iapah																																		0.36
Indian Farm . . . . .			.07		.23	.01																											1.06	
Josepa																																		0.45
Joseph																																		0.70
Jozel a Ranch																																		1.54
Juniper																																		1.46
Kanab (C)																																		1.80
Kanosh																																		0.80
Keitou	T.	.20	.20	.40	T.	T.			.01																							1.46		
Lake View Farm . . . . .			.56	T.	.22	T.																										1.80		
La Sal (C)																																		0.77
Leeds, (near) (C)																																		0.64
Lehi . . . . .			.35		.35																												1.84	
Lemay . . . . .			.05																														0.59	
Levan	T.	.38	.14	T.	.18	.01																										0.99		
Logan	T.	.38	.16	.17	T.	.																												

Daily temperatures for February, 1916.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Blanding.....	Maximum 17	22	33	39	41	45	47	45	51	55	50	48	45	48	54	55	53	55	55	48	52	47	50	50	55	45	50	44	44	46.3		
	Minimum -6	0	10	16	29	22	26	28	32	30	31	26	24	25	27	28	28	30	27	27	31	30	28	31	20	32	31	22	24	29.4		
Corinne.....	Maximum 21	33	35	37	40	43	49	45	43	43	40	38	36	35	36	38	39	38	39	39	35	37	38	33	35	33	36	33	36	36.9		
	Minimum -2	16	25	28	30	32	31	30	25	26	15	20	25	9	13	15	23	14	17	14	21	26	29	23	21	15	19	15	22	20.6		
Deseret.....	Maximum 28	29	39	41	46	47	55	54	58	56	59	45	50	50	51	53	50	43	50	53	52	55	56	53	45	50	55	43	55	48.3		
	Minimum -1	-1	22	21	29	29	30	27	33	30	31	24	16	20	21	21	27	23	25	26	31	22	27	24	20	22	27	28	23	23		
Duchesne.....	Maximum 6	4	16	22	25	44	42	44	33	30	40	24	24	27	26	29	26	31	29	27	28	29	26	28	25	32	35	25	28.0			
	Minimum -32	-26	-6	-13	12	-5	10	15	22	8	3	0	-8	-8	-8	-10	-5	-7	-4	-5	6	6	3	4	-4	3	2	-1	2.3			
Elberta.....	Maximum .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Emery.....	Maximum 21	20	22	29	35	48	41	50	51	52	51	46	45	49	48	49	46	49	45	50	47	47	48	40	50	46	42	46	42	43.5		
	Minimum -11	-12	0	-7	20	14	13	11	25	30	28	15	0	5	14	11	13	14	12	14	17	26	19	21	16	19	23	22	15	13	13.3	
Fillmore.....	Maximum 30	40	46	42	50	52	60	56	60	64	60	47	50	51	53	55	51	41	52	55	46	50	56	40	46	41	39	37	48.6			
	Minimum 6	6	30	25	32	30	32	30	34	32	34	24	24	23	23	21	23	25	26	27	28	24	28	26	23	21	25	4	25	25.4		
Ft. Duchesne.....	Maximum -1	2	14	15	27	23	28	33	40	30	26	22	22	18	20	18	18	24	23	22	33	31	34	32	28	22	33	40	33	24.0		
Fruitland.....	Maximum .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Government Creek.....	Maximum 21	31	35	35	38	41	46	47	47	48	50	41	44	45	47	49	48	47	44	40	45	49	44	34	36	48	37	33	42.0			
	Minimum 5	11	30	23	30	31	37	29	35	36	35	27	17	19	22	23	23	19	21	22	22	29	25	23	21	27	29	10	23	24.3		
Green River.....	Maximum 16	23	29	22	37	31	36	36	44	40	42	42	37	38	40	42	43	43	46	47	43	52	57	53	53	48	53	50	50	41.3		
	Minimum -17	-15	4	-6	20	15	10	10	16	14	17	12	9	8	11	15	15	18	19	21	24	33	27	29	28	29	31	26	31	15.5		
Henefer.....	Maximum 21	29	39	40	44	43	47	43	50	45	48	37	32	39	39	38	39	42	39	42	41	44	41	34	46	40	37	40.2				
	Minimum -13	-10	25	28	30	31	25	27	36	20	21	9	-3	/	4	2	3	8	4	5	6	17	22	10	5	12	24	18	17	12.7		
Ibapah.....	Maximum 20	43	41	39	45	49	47	49	48	55	43	48	53	54	47	49	55	55	41	53	52	47	40	47	49	36	37	46.3				
	Minimum -6	-1	23	18	15	22	27	27	32	29	31	20	16	22	20	21	21	22	21	23	21	23	13	24	21	4	23	20.2				
Kelton.....	Maximum 20	27	33	32	33	33	38	40	40	41	43	33	32	35	34	33	38	34	36	28	28	35	36	39	37	30	31	33.5				
	Minimum -7	9	16	19	18	25	18	23	23	17	8	-1	10	9	11	8	12	18	17	26	29	18	21	22	-1	4	13.9					
La Sal.....	Maximum 16	22	30	32	41	44	47	41	49	47	47	39	39	40	47	49	48	47	45	40	46	45	49	45	43	34	34	41.3				
	Minimum -10	-3	13	15	27	18	23	28	29	26	27	19	17	16	20	23	20	25	24	25	29	24	25	23	25	31	28	21	21.0			
Leeds (near) §§.....	Maximum 18	37	33	45	37	35	34	41	36	51	41	40	39	45	42	45	45	42	45	47	57	58	61	66	65	55	57	45	45	44.8		
	Minimum 5	11	17	32	33	32	33	33	34	34	36	35	35	35	36	39	40	37	34	35	38	34	36	36	34	33	39	30	39	36.1		
Lemay.....	Maximum 28	36	36	40	40	45	45	41	40	41	38	35	32	33	38	42	37	31	35	33	36	36	36	34	33	34	33	39	36.9			
	Minimum 10	14	20	22	28	28	33	30	29	30	28	24	12	18	20	22	25	26	24	26	28	27	26	25	25	22	8	22	23.2			
Levan.....	Maximum 20	28	40	40	41	44	45	47	50	48	49	49	42	39	40	44	41	45	49	48	45	44	41	44	41	44	48	48	42	42.0		
	Minimum 3	4	24	26	32	28	33	33	27	27	18	12	16	19	19	21	20	25	25	26	33	26	24	25	27	27	32	22	21	23.0		
Logan.....	Maximum 22	29	32	36	40	44	45	46	50	46	42	31	37	36	37	48	35	33	35	40	40	39	37	35	36	32	32	38	35.5			
	Minimum 5	14	27	30	32	32	33	31	34	37	21	4	24	10	17	19	20	26	25	24	28	25	24	22	20	5	20	22.9				
Low §§.....	Maximum 38	37	33	41	45	40	42	44	45	48	32	21	30	32	34	33	32	30	30	32	33	33	32	32	28	29	27	31	33.0			
	Minimum 15	17	22	20	30	28	36	29	32	33	23	22	19	19	21	24	26	22	24	27	25	27	30	24	27	24	24	24.8				
Lucin.....	Maximum 31	24	39	34	30	42	47	44	47	52	44	44	35	40	43	43	43	43	43	43	29	28	30	35	35	32	30	31	31	36.8		
	Minimum 4	4	12	17	14	22	21	24	20	22	23	15	11	16	19	18	19	16	12	22	23	18	20	22	21	22	8	15	17.2			
Manila.....	Maximum 10	30	29	30	40	41	50	42	42	41	49	39	38	36	36	34	35	40	33	32	40	43	44	45	40	30	30	38	37.1			
	Minimum -10	-5	-2	-5	5	10	11	20	11	20	22	18	12	11	13	7	8	15	14	15	25	25	20	15	20	10	18	11	11.8			
Manti.....	Maximum 18	25	42	42	45	49	47	48	55	45	47	43	38	43	44	43	44	46	45	46	45	46	47	44	42	48	36	43	43.0			
	Minimum -8	-4	16	23	27	19	28	28	20	15	16	10	16	14	17	16	18	21	22	28	21	22	28	22	22	22	21	16	18.6			
Meadowville.....	Maximum 20	25	32	34	39	41	48	38	34	49	43	34	26	33	30	33	10	3	11	7	6	5	8	8	12	14	6	8	12.9			
	Minimum -7	8	20	17	27	28	32	29	25	30	33	29	25	30	33	10	21	18	19	20	21	20	19	20	21	20	26	36	24	50.3		
Milford.....	Maximum 27	37	42	43	46	49	55	57	56	55	53	52	53	57	55	52	57	60	50	57	53	54	47	47	52	39	39	36	50.3			
	Minimum -6	0	25	26	30	34	33	31	33	32	30	27	20	24	26	27	26	25	26	25	26	23	25	23	25	26	26	26	26	25.0		
Moab.....	Maximum 24	26	31	31	41	42	44	45	50	47	49	49	49	47	47	51																

FEBRUARY, 1916.

CLIMATOLOGICAL DATA: UTAH SECTION.

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Daily precipitation for February, 1916.

Continued from page 15.

Stations.	Day of month.																													Total.					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Provo		T.	.52	T.	.78		.10																										2.33		
Randolph			.25	T.	.10	.08																										0.98			
Reed					.18	.04	.09																									0.75			
Revere																																	0.72		
Richfield																																	4.54		
Richmond ^{II}			.27	1.08	.35	.49	.06	.27	.05	.06	.07																				2.15				
Riverdale					.03	.26	.30	.33	.18	.24	T.	.11																							
St. George	(C)																																	1.43	
Saltair		.05	.02	.06		.18		.11	.03																								1.43		
SALT LAKE CITY ^{***}			.02	T.	T.	.16	.12	T.	.01	T.																						1.18			
Santaquin				T.	.06	T.		T.																									1.27		
Scipio			.31	.03	.52	.04																											2.08		
Scofield	(C)					.72	.18	.11	.07																								1.49		
Silver City																																			
Silver Lake																																			6.17
Snake Creek ^{II}		.05	.60	.52	.97	T.	.21	.06	.23																							8.82			
Snowville		*	.90	.12	.50		.20		.18																							2.46			
Spanish Fork			.30				.23																										1.43		
Springdale	(C)																																	0.87	
Standrod			.13	.10	.12	.14	.03	.01	.02	T.	.01																					1.07			
Sunnyside	(C)				.07		.25		T.																								0.79		
Teasdale	(C)				T.	.80	.45	.06		T.																							T.	2.26	
Thistle																																			
Thompson's	(C)					T.	.01	T.	.10	.01																								1.02	
Tooele					T.	.15	.39	.85	.44		.34		.16																			4.13			
Tremonton ^{II}																																		0.39	
Tropic	(C)																																		
Trout Creek Ranger	(C)																																		
University of Utah																																			1.47
Utah Experiment Station					T.	T.	.37	.29	.46	.13																							2.72		
Vernal	(C)																																		1.00
Victor	(C)																																		0.68
Watson (near)	(C)																																		0.22
Wendover																																			0.17
Whiskey Creek ^{II}			.32																																1.05
Winder																																			0.11
Woodruff																																			0.66
Woodside	(C)																																		0.25

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

^{II} Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

^{***} Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight.

* Precipitation included in the next following measurement. ^t Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow.

All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

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SNOW CONDITIONS IN UTAH ENDING FEBRUARY 29, 1916.

GENERAL SUMMARY.

February was a comparatively warm month; and while the snowfall was not especially heavy, it was greater than that in February last year, and also greater than the normal in all parts of the State. Very nearly every correspondent reported that the prospective water supply was greater than the average. The greatest depth of snow reported by the cooperative observers at their stations was 86 inches at Silver Lake at the head of Cottonwood Canyon. The greatest depth in the hills and mountains adjacent to these stations was 318 inches near New Castle. The greatest depth reported by the rangers of the Forest Service was 103 inches in the Cache National Forest.

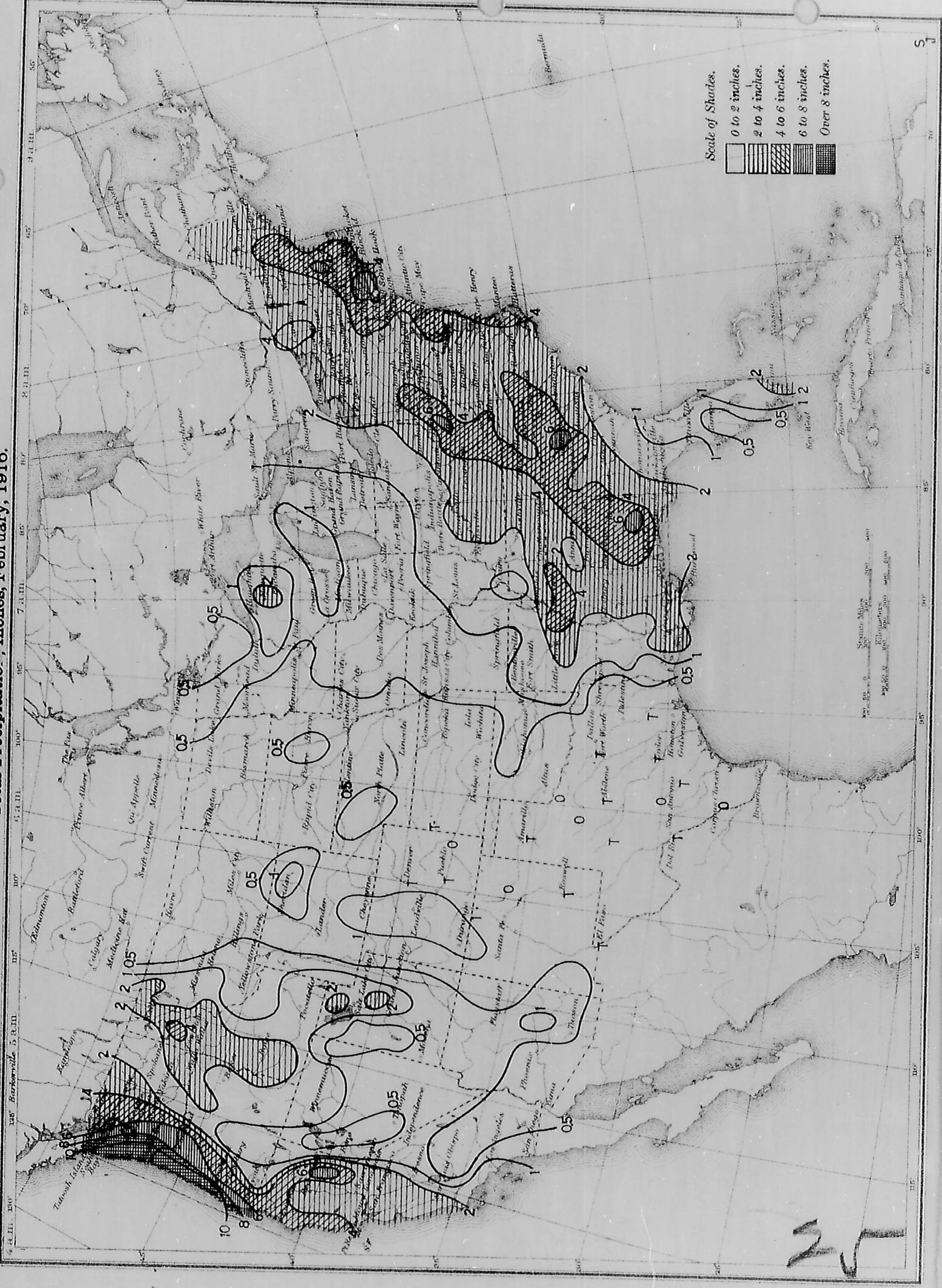
Stations.	On ground at station end of month.	Estimated depth in adjacent mountains.				Stations.	On ground at station end of month.	Estimated depth in adjacent mountains.			
		Inches.	Compared with last year.	Compared with average.	Prospective water supply compared with average.			Inches.	Compared with last year.	Compared with average.	Prospective water supply compared with average.
		Estimated depth in adjacent mountains.	Compared with last year.	Compared with average.	Prospective water supply compared with average.			Estimated depth in adjacent mountains.	Compared with last year.	Compared with average.	Prospective water supply compared with average.
<i>Great Salt Lake Watershed.</i>											
Alpine	150	+	+	+	+	Fillmore	48	+	+	+	+
Beaver Creek Nursery						Garrison	0.0				
Bennmore	6.0	+	+	++	++	Hatch	6.0	24	+	*	+
Brigham City	8.0	66	+	++	++	Joseph	1.0	40	-	+	+
Castle Rock	33.0	84	+	++	++	Jozella Ranch		3			
Cedar City						Junction					
Cedar Fort						Kanosh	6.0				
Center						Lake View Farm	5.0				
Clarkston						Manti	1.8				
Corinne	3.5					Marysville					
Cottonwood Nursery						Milford	3.0				
Deep Creek	3.0					Mills					
Elberta	36	+	++	++	++	Minersville	3.0	24			
Erekson						Modena	0.0	3			
Farmington						Moroni	8.0	75			
Garland	13.0	30	+	++	++	Nada	1.5	5			
Government Creek	1.0	36	+	++	++	Newcastle	0.7	318			
Grantsville	1.5					Oak City		24			
Grouse Creek						Panguitch					
Heber	15.0	48	+	++	++	Parowan					
Henefer	12.0	72	+	++	++	Pasadena Ranch	2.5				
High Line City Creek	18.5					Reed		36			
Howell						Richfield	3.0	84			
Ibapah	0.0					Scipio		120			
Indian Farm	T.	48	+	++	++	Utah Exp. Station	56.0				
Iosepa		36	+	++	++	Whiskey Creek	1.0				
Kelton						Winder					
Lehi											
LeMay		120	+	++	++						
Logan	3.0		+	++	++						
Low											
Lower American Fork	0.0	60									
Lower Mill Creek		144	+	++	++						
Lucin		7.0	24	+	++						
Meadowlake		16.0	60	+	++						
Midlake	1.0										
Midvale	T.	24	+	++	++						
Millville	16.0	84	+	++	++						
Morgan		12.0									
Mosida											
Nephi (near)											
Ogden											
Park City											
Park Valley		28	+	++	**						
Paxton											
Pine View											
Provo	1.0	54	+	++	++						
Randolph	12.0	48	+	++	++						
Revier	1.0										
Richmond	15.0	96	+	++	++						
Riverville	1.0										
Saltair											
SALT LAKE CITY	T.	30	+	++	++						
Santaquin	3.5	84	+	++	++						
Silver City											
Silver Lake											
Snake Creek	30.0	138	+	++	++						
Snowville		50	+	++	++						
Spanish Fork		30	+	++	++						
Standrod	4.4	17	+	++	++						
Thistle	19.5										
Tooele	4.0										
Tremonton											
University of Utah	0.5										
Wendover											
Woodruff		11.0									
<i>Sherer Lake Watershed.</i>											
Beaver	7.0	40	+	++	++						
Belknap Ranger Sta.		36	+	++	++						
Black Rock	1.0										
Burrvile											
Desert	0.0										
Enterprise	4.0	18	-	+	++						

+ indicates more; - indicates less, and * indicates average.

DEPTH OF SNOW IN INCHES ON NATIONAL FORESTS.

Number of Stake	National Forest.	Elevation.	Sub-Basin.	Depth at Stakes
77	Ashley			6
78	do			10
79	do			10
80	do			16
81	do			18
82	do			20
83	do			27
84	do			32
85	do			38
86	do			42
87	do			42
88	do			..
89	do			103
90	do			..
91	do			..
92	do			26
93	do			26
94	do			28
95	do			28
96	do			23
97	do			136
98	do			136
99	do			136
100	do			136
101	do			136
102	do			136
103	do			136
104	do			136
105	do			136
106	do			136
107	do			136
108	do			136
109	do			136
110	do			136
111	do			136
112	do			12
113	do			12
114	do			12
115	do			6
116	do			6
117	do			6
118	do			11
119	do			24
120	do			23
121	do			23
122	do			23
123	do			38
124	do			38
125	do			38
126	do			52
127	do			52
128	do			52
129	do			15
130	do			23
131	do			52
132	do			52
133	do			61
134	do			61
135	do			61
136	do			47
137	do			28
138	do			28
139	do			34
140	do			34
141	do			14
142	do			30
143	do			30
144	do			20
145	do			14
146	do			14
147	do			30
148	do			30
149	do			28
150	do			28
151	do			28
152	do			31
153	do			31
154	do			31
155	do			14
156	do			14
157	do			21
158	do			15
159	do			60
160	do			60
161	do			80
162	do			80
163	do			80
164	do			46
165	do			68
166	do			68
167	do			68
168	do			68
169	do			68
170	do			70
171	do			71
172	do			72
173	do			73
174	do			74
175	do			75
176	do			76
177	do			68
178	do			54
179	do			54
180	do			24
181	do			35
182	do			24
183	do			24
184	do			42
185	do			42
186	do			42
187	do			42
188	do			42
189	do			42
190	do			42
191	do			42
192	do			42
193	do			42
194	do			42
195	do			42
196	do			42
197	do			42
198	do			42
199	do			42
200	do			42
201	do			42
202	do			42
203	do			42
204	do			42
205	do			42
206	do			42
207	do			42
208	do			42
209	do			42
210	do			42
211	do			42
212	do			42
213	do			42
214	do			42
215	do			42
216	do			42
217	do			42
21				

Total Precipitation, Inches, February, 1916.



U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

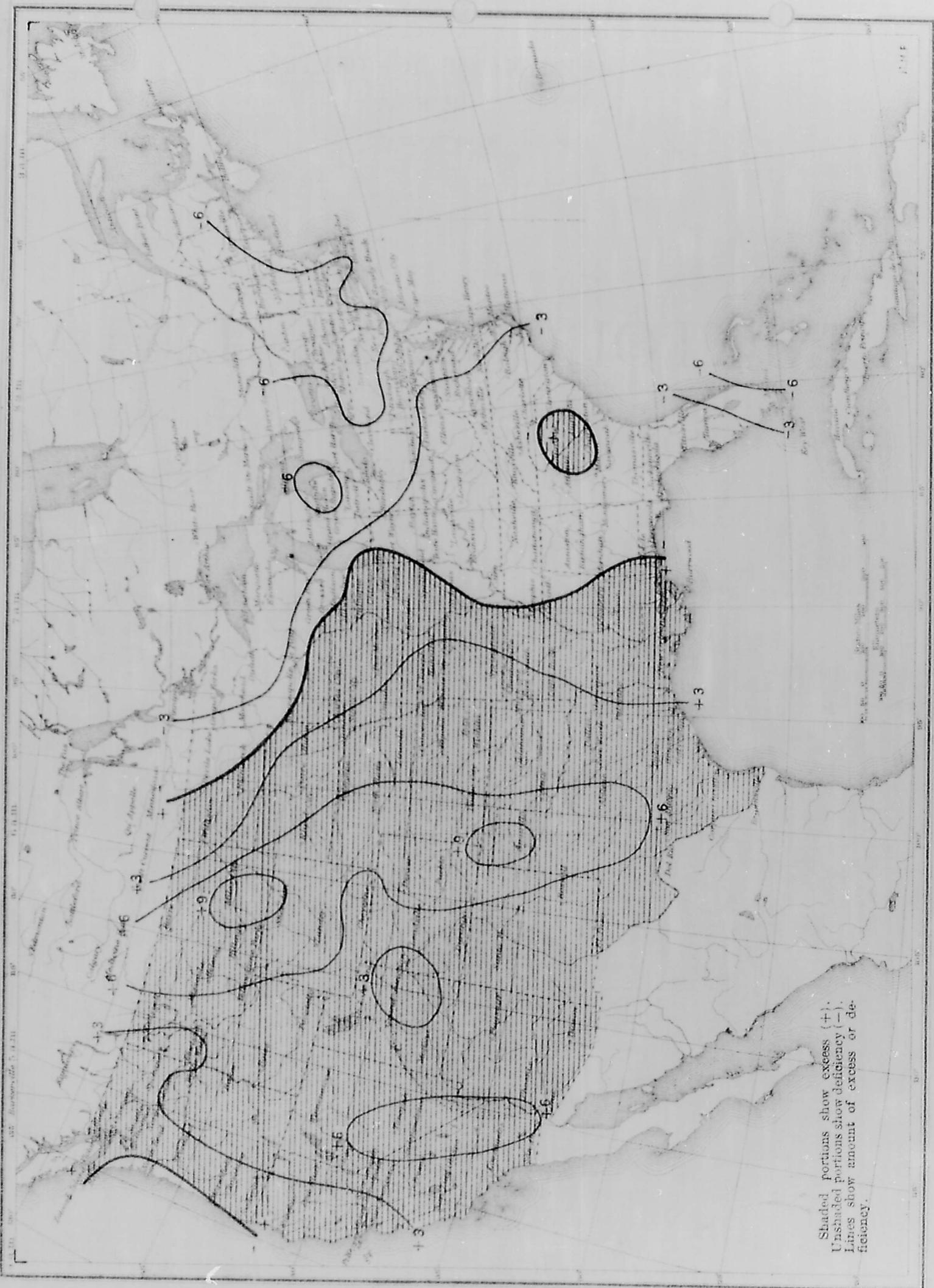
MARCH, 1916

BY
ALFRED H. THIESSEN
SECTION DIRECTOR



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
APRIL 18, 1916

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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Section Director.

VOL. XVIII. SALT LAKE CITY, UTAH, MARCH, 1916. No. 3.

GENERAL SUMMARY.

March, 1916, was on the whole warmer and wetter than normal. The temperatures averaged about 1° higher than March of last year, and the precipitation was the heaviest for any March since 1912. The weather was warm during the greater part of the month, fruit buds swelled rapidly, some plowing and seeding were done, but on the 23d and 24th a snow storm of considerable severity swept over the State and this together with the accompanying cold weather delayed plant growth and farm operations a great deal. This snowstorm was the heaviest of the winter, and some observers say the heaviest on record. The snow was soon melted, however, and most of it seeped into the ground, there being very few reports of rising creeks. There were a few complaints that the grass on the range was slow in starting, but on the other hand spring sown wheat was reported coming up in fine shape at a few places.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 30.02 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.47 inches at Salt Lake City on the 7th. The lowest was 29.08 inches at Salt Lake City on the 28d.

TEMPERATURE.

The monthly mean temperature for the State was 41.0° , which is 2.4° above normal. Of the 37 stations with records of 10 years or more, 6 reported mean monthly temperatures below, 2 equal to, and the remainder above normal. The greatest plus departure was 5.7° at Logan whose monthly mean temperature was 41.6° , and the greatest minus departure was 3.6° at Kelton whose monthly mean was 37.4° . The highest monthly mean was 55.5° at Leeds (near), and the lowest was 23.6° at East Portal. The month began with temperatures below normal over the entire State. After the 5th the temperatures rose and the weather remained comparatively warm with temperatures above normal until the 23d, when cold weather again set in and continued until the end of the month. The lowest temperatures were generally recorded from the 1st to the 6th and on the 25th and 26th, the lowest being -15° at Lone Tree on the 3d. The highest temperatures were reported, as a rule, from the 14th to the 19th, the highest being 85° at Kanab on the 14th.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 56 per cent, and at 6 p. m. 46 per cent. At Modena at 6 a. m. it was 75 per cent, and at 6 p. m. 32 per cent.

PRECIPITATION.

The precipitation for the State averaged 1.93 inches, which is 0.35 inch above normal. The greatest local monthly amount was 6.73 inches at Silver Lake, and the least was 0.13 inch at Winder. The wet condition at the end of February continued through the 1st and 2d of March and another began on the 4th ending the 6th. Two distinct stormy periods occurred in the latter half of the month, from the 18th to the 24th and from the

28th to the 30th. The most notable storm of the month was the exceedingly heavy snow accompanied by high winds on the 23d and 24th. This storm was quite general, and the greatest 24-hour amounts at most stations occurred on those dates. The greatest depths were reported in the Jordan river valley, ranging from 11 to 24 inches on the level with drifts 6 feet high. The greatest 24-hour amount of precipitation was 2.40 inches at Alpine on the 24th.

WIND.

The prevailing direction of the wind for the State was from the south. The average velocity at Salt Lake City was 8.6 miles per hour; the highest 53 miles per hour from the northwest on the 2d; and the prevailing direction from the southeast. At Modena the average velocity was 11.6 miles per hour; the highest 48 miles per hour from the northwest on the 21st; and the prevailing direction from the west.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 66 at Salt Lake City, and 81 at Modena.

For the State the average number of clear days was 15; partly cloudy, 8; and cloudy, 8.

CORRECTIONS.

January, 1916: Watson, total precipitation should be 1.92 inches; Logan, total snowfall should be 24.9 inches; Lemay, total precipitation should be 0.56 inch, greatest precipitation in 24 hours should be 0.12 inch. Scofield, lowest temperature should be -26° on the 7th. Thistle, lowest temperature should be -17° on the 12th. Tremonton, date of lowest temperature should be 29th.

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Average precipitation.	Total snowfall.	Number of days			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891									
1892	40.0	83	-4	1.52	10.0	7			
1893	35.6	87	-19	2.05	12.0	8	10	9	12 SW.
1894	36.6	85	-22	1.66	14.4	6	14	9	8 NW.
1895	37.0	87	-15	1.24	6.4	4	18	7	6 SW.
1896	38.0	88	-7	0.99	8.0	6	12	10	9 SW.
1897	32.0	79	-16	2.22	17.0	8	9	11	11 SW.
1898	34.2	80	-14	1.24	9.7	6	13	11	7 SW.
1899	38.5	84	-3	2.46	8.3	8	11	10	10 SW.
1900	43.9	86	6	0.19	1.2	1	20	7	4 SW.
1901	36.8	78	-2	0.84	7.6	5	16	7	8 N.
1902	34.9	73	-9	1.28	10.3	7	11	9	11 SW.
1903	37.3	80	-32	1.19	7.4	5	12	9	10 S.
1904	39.9	90	-10	2.33	11.5	9	9	10	12 S.
1905	42.2	83	0	1.76	6.8	8	11	9	11 N.
1906	38.0	86	-34	3.14	18.2	11	10	8	13 SW.
1907	42.4	87	-2	1.65	9.9	7	8	10	13 SW.
1908	39.8	90	-20	1.10	8.3	5	15	9	7 SW.
1909	37.4	78	-21	1.16	7.4	6	12	10	9 SW.
1910	46.1	85	5	0.78	1.9	3	17	8	6 S.
1911	41.2	86	-6	1.30	2.2	5	15	9	7 SW.
1912	37.3	86	-12	2.72	17.5	11	7	9	15 SW.
1913	35.1	87	-18	0.93	9.5	5	13	9	9 S.
1914	41.0	90	-3	0.63	2.2	4	19	7	5 N.
1915	39.9	81	-14	0.75	3.9	4	16	8	7 N.
1916	41.0	85	-15	1.93	10.8	7	15	8	8 S.

GREAT SALT LAKE WATER LEVEL RECORDS AT SALT AIR.

(Feet and tenths.)

Zero of gage is 4,212.9 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1916	1st +4.5	+4.7	+5.2										
	15th +4.6	+5.0	+5.4										

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Climatological data for March, 1916.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.				Precipitation, inches.		Number of days		Prevailing direction of wind.	Observers.							
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
Alton.		7,000	1	37.8		65	17	4	2	39	3.91	0.92	18.0	10	16	10	5	nw.	Wm. M. Cox.	
Beaver.		6,000	11	39.7	-3.3	69 ^a	8	-6 ^b	25	53 ^c	1.08	-0.13	6.67	11.5	4	17	6	s.	S. Z. Jenkins.	
Black Rock.		4,872	11	45.2	+ 4.6	75	12	8	2	50	0.50	-0.74	0.20	4.0	4	18	10	w.	Agent Salt Lake Route.	
Blanding.		6,000	8	42.8		64	9	12	2	33	1.28		0.61	4.6	7	20	3	sw.	E. F. Thompson.	
Bluff.		4,200	3	35.9		89 ^a	13 ^b	26 ^c	15 ^d	49 ^e	0.19		0.09	1.3	4	20 ^f	1 ^g	s.	Perry A. Clark.	
Brigham City.		4,305	3	43.9		75 ^b	10	16	1	41 ^b	2.07		0.74		10				N. Merrill Valentine.	
Burkeville.		6,800	4																F. R. Curtis.	
Castle Dale.		5,500	16	36.3	-2.3	60	20	4	3	41	1.70	+1.26	1.00		3	24	2	5		Miss Zella Jeffs.
Cedar City.		5,750	10	45.4	+ 3.0	74	12 ^b	11	26	42 ^c	1.38	+0.24	0.78	4.0	5	19	2 ^e	7 ^f	sw.	Parley Dailey.
Center.	#	4,250	4	41.2		75	15	10	1 ^b	49	1.10		0.45	0.7	5	16	5	10	s.	L. C. Peterson.
Corinne.		4,240	45	39.2	-1.1	67	19	8	1	36	1.61	+0.24	0.82	0.5	4	12	5	14		A. C. Murphy.
Deseret.		4,541	20	44.5	+ 3.6	76	17	14	2	54	1.10	+0.11	0.44	7.0	5	18	1	12	s.	S. W. Western.
Duchesne.		5,115	8	33.4		61	27	-12	3	42	0.99		0.30	7.0	7	12	7	12		M. M. Smith.
East Portal.	#	7,606	3	23.6		49	19	-13	3	49	5.18		1.61	43.0	14	14	6	11		Reclamation Service.
Elberta.		4,650	13																	D. C. Walkay.
Emery.		6,200	14	39.8	+ 1.6	67	23	1	3	41					3	2	26	e.	H. C. Wickman.	
Farmington.		4,268	14	45.0	+ 4.0	70	20	22	25	35	3.00	+0.56	1.26	8.6	5	17	5	9	n.	Chas. Boylin.
Fillmore.		5,100	23	45.6	+ 3.6	78	17	12	2	43	2.31	+0.40	1.15	25.5	7					J. J. Starley.
Ft. Duchesne.		4,341	27	33.6	-1.1	63 ^a	20	10 ^b	3	38	0.95	+0.28	0.38		4	22	5	2 ^f	w.	Geo. W. Dickson.
Fruitland.		6,725	5	40.2		81 ^a	17	8 ^b	30	66 ^c	1.63		0.41	17.2	7	15 ^d	11	3 ^e	w.	J. E. L. Carey.
Garfield.		4,248	3	38.6		68 ^a	16	13	1	39	1.98		0.85	1.5	7	14	6	11	n.	J. T. Roberts.
Garrison.		4,850	11																	Jas. F. Robison.
Government Creek.	#	5,277	14	43.2	+ 4.6	71	16 ^b	10	2	39	1.58	-0.71	0.80	10.5	5	13	3	15	n.	Walter James.
Green River.		4,080	15	46.7	-0.5	76 ^a	19	17 ^b	2	47 ^c	0.92	+0.49	0.65	3.2	2	18 ^d	7 ^e	5 ^f	sw.	E. E. Adams.
Hanksville.		4,200	4																	F. J. Weber.
Heber.		5,593	22	35.8	+ 1.5	65	19 ^b	-5	3	47	3.45	+1.13	0.70	8.0	11	15	3	13	s.	John Crook.
Henefer.		5,301	15	36.8	+ 0.9	66	27	-4	3	44	3.19	+0.69	0.59	20.0	13	17	1	13	w.	Wm. Brewer.
Ibapah.		7,500	10	41.8		74	16 ^b	9	25	51	0.89		0.76	9.0	4	19	9	3	sw.	W. M. Chastain.
Josepha.		4,356	4	39.8		69	16	19	55	45	1.04		0.49		5	24	6	1	s.	James K. Halemanu.
Kanab.		4,925	7	49.7		85	14	20	2	53	1.24		0.46	2.0	7					D. D. Rust.
Kelton.		4,230	35	37.4	-3.6	61 ^a	18	6	3	31 ^b	0.91	+0.41	0.45	1.0	3	5	20	12	w.	F. W. Klock.
La Sal.		7,000	12	38.5	+ 2.2	65	17	9	25	35	1.28	+0.30	0.42	10.0	6	15	9	11	n.	La Sal Live Stock Co.
Leeds (near).	#	3,400	3	55.5		80 ^a	10 ^b	28	3	40	1.95		0.80	3.0	5	24	0	7		B. F. Anderson.
Lehi.		4,550	2	44.0		76 ^a	17	12 ^b	25	46	2.91		1.50	17.0	10	16 ^d	6 ^e	5 ^f	nw.	Joseph Anderson.
Logan.		4,221	4	42.2		65	19	14	3	25	1.20		0.80	3.0	2	14	12	5	e.	E. J. Ineck.
Lone Tree.	#	5,010	25	42.0	+ 4.7	73	17	10	2	42	3.51	+1.41	0.79	17.6	9	17	7	7	s.	John C. Jensen.
Low.	#	4,507	24	41.6	+ 5.7	69	17	12	1	34	2.17	+0.17	1.00	8.0	7	18	4	9		Experiment Station.
Lower American Fork.	#																			J. A. Kay.
Lower Mill Creek.	#																			Art. Western Pacific Co.
Lucin.		4,504	8	40.2		71	18	0	3	41	0.42		0.27	1.5	5	15	13	3	e.	D. Folker.
Manti.		6,225	5	36.2		65	16 ^b	8	2	41	0.50		0.30	3.0	2	13	12	6		J. M. Nelson.
Marysvale.		5,575	20																	J. M. Anderson.
Meadowville.	#	6,180	14																	A. Soyka.
Midlake.	#	6,200	14	32.9	+ 3.4	56	22	-3	1	41	1.47	-0.43	0.30	5.5	9	14	6	11		J. S. Moffat.
Midvale.		4,235	4	40.8		63	23	17	1	38					11	9	11			Stella M. Gibson.
Millford.		4,365	3	45.3		79	17	14	63	45	2.61		1.12	11.6	6	15	5	11	s.	E. D. Camomile.
Moab.		4,962	7	43.4		75	12 ^b	-4	2	49	1.85		0.55	8.3	7	19	6	6	n.	Delta Land & Water Co.
Modena.		4,000	25	49.5	+ 2.5	78	87	21	3	50	1.17	+0.18	0.38	T	6	9	14	8		Henry Crouse.
Monticello.		5,479	14	42.5	+ 3.4	72	12	3	2	46	1.50	+0.20	0.49	5.5	8	18	9	4	w.	U. S. Weather Bureau.
Morgan.		7,050	7	38.0		63	17	8	3	33	2.25		1.60		5	20	7	4	sw.	E. H. Barton.
Moroni.		5,068	10	39.0	+ 2.4	67 ^a	19	6	1	49 ^b	1.88	-0.66	0.65	8.6	9	11	9	11	nw.	Dash Smith.
Mosida.		6,000	7	39.4		70	17	11	34	38	3.04		0.78	9.7	11	12	5	14	sw.	B. F. Ellison.
Mountain Home.		4,510	3	43.1		75	17	19	25	45	1.03		0.30	1.0	5	12	12	7		Mosida Fruit Lands Co.
Nephil (near).		6,000	2	33.0		56 ^a	20 ^b	4 ^c	3	38	1.38		0.50	8.0	5	20 ^d	1 ^e	7 ^f	w.	Oscar Wilkins.
Oak City.		5,119	10												7					J. W. Jones.
Ogden.		4,900	8																	Jos. L. Anderson.
Panguitch.		4,310	44	344.6	+ 3.1	74 ^b	17	23	14	37 ^c	2.14	+0.56	0.83	8.0	10	19	8	4		Ralph Shorten.
Park City.		6,560	3																	H. L. Strembel.
Parowan.		7,000	10																	
Pine View.	#																			Alex Matheson.
Pinto.		3,335	3	36.1		63 ^a	17	0 ^b	25	45 ^c	2.34	+0.70	1.00		6	18	8	5	s.	W. S. Hall.
Price.		5,907	17	39.6	+ 3.5	71 ^b	18	-3 ^c	2	50	2.74	+0.70	1.00		6	18	8	5	sw.	Granville Denning.
Provo.		4,532	21	43.9	+ 3.1	76	17	2	25	50	3.34	+1.60	1.70	22.0	11	16	5	10		Walter Bass.
Richtield.		5,131	1	45.8		72	27 ^b	22	20	42	2.60		0.60	1.0	6	16	10	5	sw.	Reclamation Service.
Riverville.		4,317	2	44.8	+ 4.6	77	16 ^b	5	3	45	1.45	+0.49	0.60	4.0	6	23	3	5	sw.	Simon Carstensen.
St. George.		4,310	2																	Eugene Bone.
Saltair.		4,220	11	43.4	+ 2.2	65	19	24	1	42	1.66	-0.32	0.60	3.8	8					J. E. Larson.
SALT LAKE CITY.		4,360	41	46.2	+ 4.8	73	17	23	6	30	3.03	+1.03	1.82	16.0	9	14	7	10	se.	U. S. Weather Bureau.
Santaquin.		5,250	2	45.8		74	18	15	1	38	3.10		1.03	6.1	8	15	7	9		Wm. Broadbent.
Scipio.		5,260	2																	

Daily precipitation for March, 1916.

Continued on page 27.

Daily temperatures for March, 1916.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean		
Blanding.....	Maximum	34	37	45	52	55	45	50	59	64	62	63	62	60	60	61	56	62	57	62	59	55	55	45	55	47	51	61	59	49	49	48	54.2	
	Minimum	21	12	17	27	42	26	30	30	37	37	37	38	29	31	35	36	40	38	40	42	39	30	22	22	24	32	37	31	31	28	31.5		
Corinne.....	Maximum	33	35	42	45	38	39	44	51	55	55	52	58	49	52	57	57	67	58	51	49	48	41	47	65	63	60	45	53	52	51.6			
	Minimum	8	15	19	28	17	13	28	29	27	23	25	28	20	25	26	27	30	30	37	35	35	34	29	23	25	30	27	37	28	25	26.9		
Deseret.....	Maximum	44	43	55	52	57	49	55	65	70	68	70	75	62	61	72	75	16	78	70	69	66	45	40	49	65	71	58	51	52	58	60.7		
	Minimum	25	14	25	38	38	18	24	23	33	29	32	29	26	17	18	30	45	36	43	39	27	31	26	25	30	20	25	30	21	28	22	28.3	
Duchesne.....	Maximum	30	30	30	35	52	36	42	51	49	47	47	43	49	45	44	48	50	51	57	54	51	57	52	39	50	56	61	54	46	41	46	46.6	
	Minimum	4	3	-12	1	25	12	30	21	28	20	14	13	15	23	13	14	20	26	29	29	36	26	32	25	27	27	28	30	27	22	20	20.3	
Elberta.....	Maximum
Emery.....	Maximum	48	47	40	43	53	51	63	61	60	64	63	62	64	63	58	62	60	61	60	62	60	58	67	56	48	56	62	50	51	45	48	56.3	
	Minimum	15	11	11	18	23	27	25	25	22	33	29	28	30	31	33	25	20	22	21	18	26	25	26	26	25	30	27	34	31	38	31	23.4	
Fillmore.....	Maximum	40	42	55	50	53	53	52	62	70	68	70	76	63	60	72	76	78	67	72	70	60	68	52	37	49	65	70	55	44	50	56	59.8	
	Minimum	20	12	23	32	35	19	27	27	37	35	31	37	39	25	43	47	52	40	40	38	33	35	23	18	26	40	37	29	26	23	31.5		
Ft. Duchesne.....	Maximum	28	32	45	35	40	44	45	43	38	33	45	43	44	45	50	54	61	63	59	58	56	51	48	57	62	58	49	45	50	47.6			
	Minimum	
Fruitland.....	Maximum	154.5
	Minimum	120.8
Government Creek.....	Maximum	39	35	47	49	52	40	57	59	58	67	68	69	65	56	57	71	71	68	70	65	56	57	60	41	57	42	45	52	56	44	52	54.9	
	Minimum	18	10	26	35	29	12	24	32	37	31	32	37	35	21	25	32	42	46	38	46	34	40	30	21	12	31	38	39	25	28	21	29.9	
Green River.....	Maximum	44	43	43	55	63	51	62	73	75	70	73	71	63	66	70	74	74	76	73	71	69	60	48	53	62	68	66	57	51	60	*62.8		
	Minimum	29	17	19	27	29	27	26	33	32	30	32	30	34	30	24	25	27	38	36	32	48	34	32	29	28	31	34	31	38	31	30.6		
Henefer.....	Maximum	28	36	35	47	47	35	47	51	56	55	52	55	47	49	55	62	65	64	64	56	51	53	37	46	55	44	41	50	54	50.8			
	Minimum	3	20	-4	26	27	20	30	25	34	20	15	17	22	12	15	19	21	27	32	37	33	25	33	26	10	23	27	38	24	27	19	22.7	
Ibapah.....	Maximum	38	40	51	53	51	45	54	69	71	65	68	72	57	62	71	74	66	69	63	58	67	59	55	52	64	68	50	45	45	57	58.2		
	Minimum	21	17	24	26	30	21	22	25	33	26	22	26	31	21	20	24	27	38	39	31	27	26	14	9	11	29	39	25	19	25.1			
Kelton.....	Maximum	35	32	35	38	41	42	43	41	45	48	46	48	46	51	58	60	61	51	59	59	56	53	52	41	49	56	48	47	52	48.7			
	Minimum	10	16	6	18	28	15	25	26	29	24	21	21	25	26	30	36	36	42	39	31	27	26	28	29	34	30	31	24	25	27.5			
La Sal.....	Maximum	31	27	38	48	47	41	40	50	55	60	61	62	61	55	57	63	65	62	62	61	56	54	43	30	37	47	49	59	58	47	39	46	50.5
	Minimum	21	10	28	37	19	13	25	33	32	30	31	20	26	29	33	36	35	37	34	34	29	20	9	24	30	34	23	26	19	26.5			
Leeds (near) §§.....	Maximum	51	62	62	58	57	61	68	77	76	80	79	76	70	76	79	76	64	65	69	53	47	58	68	74	72	63	54	63	51	63	*67.1		
	Minimum	45	45	28	30	36	33	36	42	45	53	51	49	54	40	40	45	49	52	51	54	53	33	37	37	46	46	47	49	49	43.9			
Lemay.....	Maximum	40	40	37	40	43	42	45	48	46	52	54	57	54	60	60	64	60	63	65	55	55	62	53	46	47	46	48	50	48	50.8			
	Minimum	21	23	14	30	24	23	26	31	30	34	36	34	36	46	40	38	39	35	38	40	48	40	37	32	30	34	33	33	33	33	33.5		
Levan.....	Maximum	36	38	40	46	51	42	44	58	63	61	64	70	56	55	68	72	73	66	72	65	65	61	52	32	40	61	68	60	40	46	51	55.2	
	Minimum	21	10	28	30	12	26	27	30	34	31	34	32	33	23	26	30	30	31	31	30	25	28	23	16	22	26	23	28	23	27.8			
Logan.....	Maximum	21	10	12	35	30	12	26	27	30	34	31	32	33	23	26	27	28	30	31	30	25	28	23	16	22	26	23	28	23	27.8			
	Minimum	27	36	42	46	46	40	44	46	53	53	54	64	51	51	57	66	69	66	67	65	64	64	40	45	57	64	64	46	46	55	52.6		
Low §§.....	Maximum	40	37	38	37	32	30	50	52	33	44	52	50	44	50	52	54	56	58	50	45	29	28	47	50	47	49	50	45	55	44.8			
	Minimum	26	37	29	24	30	28	26	27	30	35	37	38	37	35	44	49	50	47	42	24	28	30	39	41	30	33	42	34	32	34.0			
Lucin.....	Maximum	31	34	41	41	41	41	41	41	49	46	46	46	43	43	43	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	53.4	
	Minimum	12	5	16	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	44	36	36	45	26	25	27	33	34	30	35	31	33.0		
Panguitch.....	Maximum
Park City.....	Maximum
Pasadena Ranch.....	Maximum	50	54	52	58	60	62	58	64	60	58	62	64	62	68	70	61	60	62	68	64	60	64	66	67	72	68	66	68	72	62.5			
	Minimum	26	28	24	28	30	31</td																											

Daily precipitation for March, 1916.

Continued from page 25.

Stations.	Day of month.																														Total.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Provo	.04	.02	....	.03	.25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	.02	.06	.56	....	.55	1.70	....	....	....	....	....	3.34
Randolph	....	....	....	....	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.08	.06	.10	T.	T.	.05	.06	....	....	....	....	0.65	
Reed	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Revere	.07	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.40	.25	.05	.17	.19	....	....	....	....	1.43
Richfield	.60	.10	....	T.	.40	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.40	.25	.05	.17	.19	....	....	....	....	1.45
Richmond	||	....	....	.05	....	....	T.	.43	.18	.70	....	....	....	....	....	....	....	....	....	....	.09	....	1.32	....	.10	.60	.12	....	....	....	....	3.87
Riverdale	....	....	T.	T.	....	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.36	....	.14	T.	....	....	....	....	....	0.62
St. George	....	(C)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Saltair	.04	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.10	.54	....	.16	.60	....	....	....	....	1.66
SALT LAKE CITY ***	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.66
Santaquin	.11	T.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3.03
Scipio	.15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	T.	1.03	* 1.20	....	....	....	....	....	3.10	
Scofield	....	(C)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	T.	.49	.41	.07	.02	....	....	....	....	2.32
Silver City	.39	.04	....	.10	.19	.05	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.02	.09	.04	.18	.03	.02	....	....	....	1.28
Silver Lake †	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Snake Creek †	.79	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	1.32	....	.35	.37	....	....	....	....	....	1.13	6.73
Snowville	.18	....	.22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.60	....	.40	....	....	....	....	....	....	....	4.36
Spanish Fork	.15	....	....	T.	.12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.80	....	.38	.72	....	....	....	....	....	....	2.31
Springdale	....	(C)	....	.20	.28	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.58	....	.34	.65	.79	....	....	....	....	....	2.94
Standrod	.10	....	....	....	.11	T.	.01	....	....	....	....	....	....	....	....	....	....	....	T.	....	.47	.08	....	.16	.65	.03	....	....	....	....	....	2.47
Sunnyside	....	(C)	....	....	....	.20	T.	....	....	....	....	....	....	....	....	....	....	....	T.	....	.03	T.	....	T.	T.	....	....	....	....	....	....	2.25
Teasdale	....	(C)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.01	.35	....	.55	.65	....	....	....	....	....	0.34	
Thistle	.40	....	.47	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.08	....	.10	.70	.75	....	....	....	....	....	2.97	
Thompson's	.75	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	1.08	....	....	....	....	....	....	....	....	....	1.83	
Tooele	.12	....	T.	.45	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	T.	.52	....	T.	1.74	....	....	....	....	....	2.88	
Tremonton	....	....	.05	....	.41	.06	.11	....	....	....	....	....	....	....	....	....	....	T.	....	.07	....	.27	....	....	....	....	....	....	....	....	1.63	
Tropic	....	(C)	....	....	.27	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	0.61	
Trout Creek Ranger	....	(C)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	....	....
University of Utah	.12	....	....	....	.37	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.66	....	.40	.80	....	....	....	....	....	....	2.40	
Utah Experiment Station	.88	.45	....	....	.73	.38	....	....	....	....	....	....	....	....	....	....	....	T.	....	.02	.93	....	.09	.76	.08	....	....	....	....	....	4.84	
Vernal	.10	....	....	....	.40	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	.60	.04	....	....	....	....	....	....	1.16	
Victor	....	(C)	....	....	.03	....	.05	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	0.37		
Watson (near)	....	(C)	....	....	.03	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.06	.05	.04	....	....	....	0.22		
Wendover	.06	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	.08	....	....	....	....	....	....	0.24	
Whiskey Creek †	.19	....	....	....	.10	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	.34	....	.32	.62	.30	....	....	....	....	....	0.77	
Winder	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	T.	....	....	....	....	....	....	....	....	....	....	1.94		
Woodruff	.02	T.	....	T.	T.	.02	T.	....	....	....	....	....	....	....	....	....	....	....	T.	....	.12	T.	....	.05	.53	....	....	....	....	....	....	0.13
Woodsid.	....	(C)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

*** Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight.

* Precipitation included in the next following measurement. † Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow. All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

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SNOW CONDITIONS IN UTAH ENDING MARCH 31, 1916.

GENERAL SUMMARY.

The warm weather during March caused melting and considerable settling of the snow. The snow stakes in the northern portion of the State showed more snow at the end of March than at the end of February, while those in the south showed less, but it is very probable that the water equivalent is high. The reports from the various stations show that the amount of snow stored in the mountains was more than last year, more than the normal, and that the water supply for the coming season was also above normal. The snow that melted during the month soaked into the ground, and there were very few reports of swollen rivers or creeks.

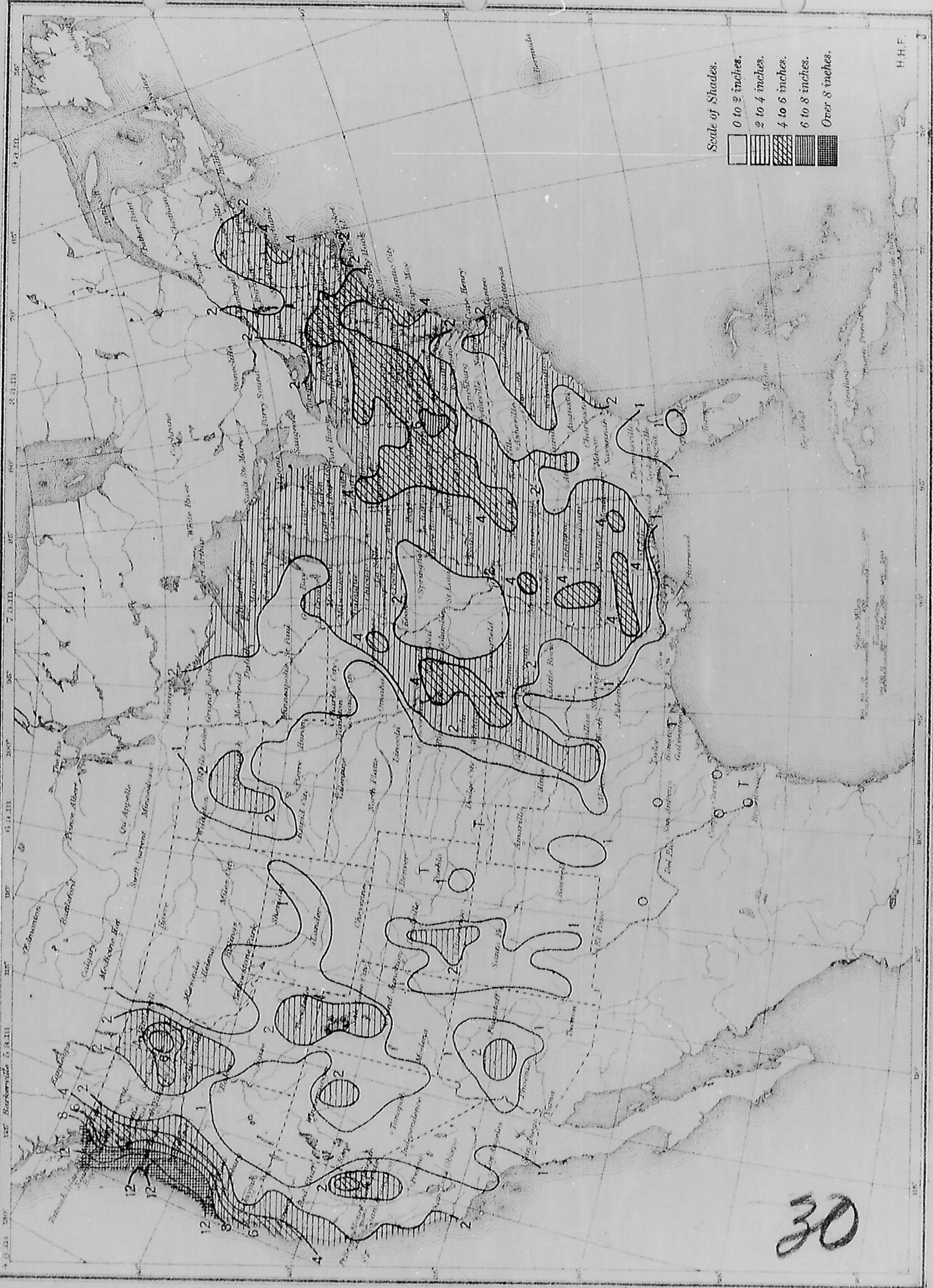
Stations.	On ground at station end of month. Inches.	Estimated depth in adjacent mountains.			Stations.	On ground at station end of month. Inches.	Estimated depth in adjacent mountains.		
		Compared with last year. Compared with average.	Prospective water sup- ply compared with average.	Compared with last year. Compared with average.			Compared with last year. Compared with average.	Prospective water sup- ply compared with average.	Compared with last year. Compared with average.
Great Salt Lake Watershed.					Fillmore				
Alpine	150	+	+	+	Garrison	0			
Beaver Creek Nursery					Hatch	0	30		
Bennmore	0				Joseph	0			
Brigham City	0	60	+	+	Jozella Ranch	0			
Castle Rock	0	72			Junction				
Cedar City					Kanosh				
Cedar Fort	48	*	*	*	Lake View Farm	0	12		
Center	0	63	+	+	Levan	0			
Clarkston		36	+	+	Manti				
Corinne					Marysville	0	36		
Cottonwood Nursery					Mills	0	42		
Deep Creek	0	60	+	+	Modena	0	0		
Elberta					Moroni	0	75		
Erekson	0				Nada	0			
Farnington					Newcastle	0			
Garland	0	24	+	+	Oak City	96			
Government Creek	0				Panguitch				
Grantsville	72	+	+	+	Parowan				
Grouse Creek	14	+	*	*	Pasadena Ranch	0			
Heber	0	54	+	+	Reed				
Henefer	0	72	+	+	Richfield	0			
High Line City Creek	0				Scipio				
Howell					Utah Exp. Station	49.0			
Ibapah	0				Whiskey Creek	0			
Indian Farm	0	42	+	+	Winder				
Iosepa	42	+	+	+					
Kelton	0								
Lehi		120	+	+					
Lemay			*	*					
Logan									
Low									
Lower American Fork	0								
Lower Mill Creek	0	144	+	+					
Lucin	0	12	+	+					
Meadowville									
Midlake	0								
Midvale	0	10	+	+					
Millville	0	84	+	+					
Morgan	0								
Mosida									
Nephi (near)									
Ogden	0	33	+	+					
Park City									
Park Valley									
Payson									
Pine View									
Provo	0		*	*					
Randolph	48	+	+	+					
Revier	0	38	+	+					
Richmond	0	48	+	+					
Riverville	0								
Saltair		14	+	+					
SALT LAKE CITY	0	63	+	+					
Santaquin									
Silver City									
Silver Lake									
Snake Creek	4.0	66	+	+					
Snowville		144	+	+					
Spanish Fork									
Standrod	0	15	+	+					
Thistle	0								
Tooele		24	+	+					
Tremonton									
University of Utah	0								
Wendover									
Woodruff	0	36	+	+					

+ indicates more; - indicates less, and * indicates average.

DEPTH OF SNOW IN INCHES ON NATIONAL FORESTS.

Number of Stake	National Forest.	Elevation.	Sub-Basin.	Depth at Stakes
77	Ashley			4
78	do			6
79	do			6
80	do			11
81	do			12
82	do			18
83	do			24
84	do			34
85	do			34
86	do			30
87	do			48
88	do			20
89	do			2
90	do			2
91	do			10
92	do			13
93	do			14
94	do			15
97	Uinta	1		126
1	Cache	2		
2	do			
3	do			117
4	do			42
5	do			84
6	Fillmore			124
7	do			10
8	do			20
9	do			13
10	do			5
11	do			4
12	do			7
13	do			4
14	do			5
15	do			5
16	do			16
17	do			24
18	do			30
19	do			..
21	do			15
22	do			12
23	do			0
24	do			0
25	do			10
26	La Sal			
27	do			
28	do			
29	do			
30	do			
31	do			
32	do			
33	do			
34	do			
35	do			
36	do			
37	do			
38	do			
39	do			
40	Sevier			
41	do			0
42	do			0
43	do			14
44	do			14
45	do			0
46	do			0
47	do			0
48	do			0
49	do			0
50	do			0
51	do			0
52	do			0
53	do			14
54	Uinta			0
55	do			0
56	do			0
57	do			0
58	do			0
59	do			0
60	do			0
61	do			0
62	do			0
63	do			0
64	do			0
65	do			0
66	do			0
67	do			0
68	do			0
69	Wasatch			0
70	do			0
71	do			0
72	do			0
73	do			0
74	do			0
75	do			0
76	do			0

Total Precipitation, Inches, March, 1916.



U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

APRIL, 1916

BY

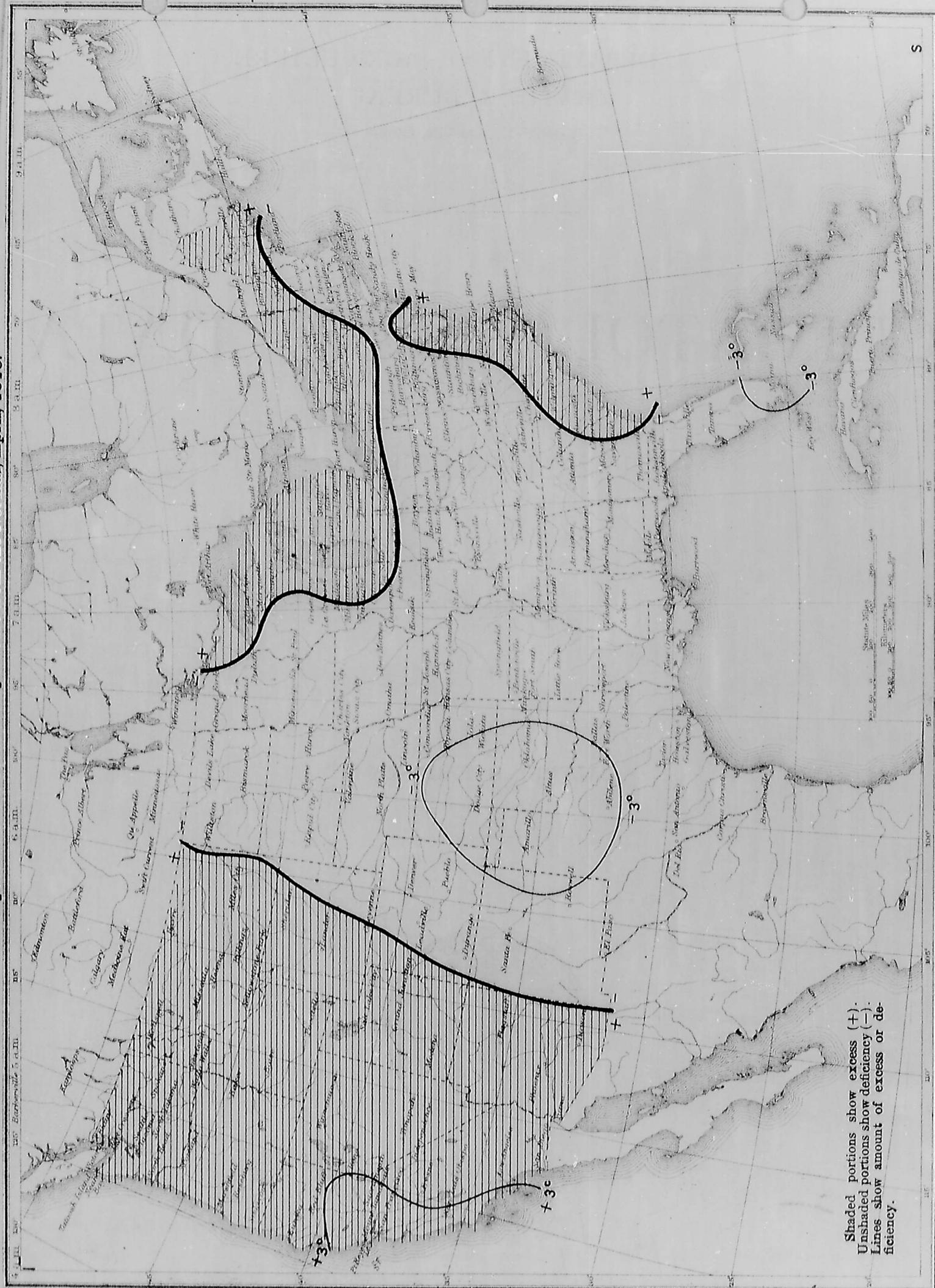
ALFRED H. THIESSEN

METHOROLOGIST



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
MAY 17, 1916.

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Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Meteorologist.

VOL. XVIII. SALT LAKE CITY, UTAH, APRIL, 1916.

No. 4.

GENERAL SUMMARY.

The temperature for the State as a whole averaged during April somewhat higher than normal, but many correspondents reported a cold backward spring. This is due to the fact, perhaps, that there were some cold days that set back the growth of the crops somewhat, but as a matter of fact, the crops at the end of the month were normally advanced. While the temperature was above normal, it was not so high as during April last year which was classed as the warmest April on record. The precipitation averaged a little more than one-half the normal, and therefore much drier than April of last year, which was one of the wettest Aprils on record. Many correspondents reported the need of rain. The ranges were dry, and in some places the grass was said to be late in coming up due to the late snows. Stock was reported in excellent condition. Apricots were in full bloom about April 3d, but a frost occurred on April 19th killing most of the crop and damaging pears, cherries, peaches, plums to some extent, but not seriously. Another frost on April 30th did further damage. All report plenty of water, and in some parts of the State irrigating had commenced.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 29.92 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.36 inches at Salt Lake City on the 7th. The lowest was 29.54 inches at Modena on the 18th.

TEMPERATURE.

The monthly mean temperature for the State was 48.6° , which is 1.7° above normal. Of the 36 stations with records of 10 years or more, 6 reported monthly mean temperatures below normal, and the remainder above. The greatest plus departure was 3.8° at Black Rock, whose monthly mean was 51.8° ; and the greatest minus departure was 3.4° at Thistle, whose monthly mean was 44.0° . During the first few days of the month low temperatures prevailed, but as only apricots were in bloom no serious damage resulted. Seasonable temperatures prevailed until the 19th and 20th, when the temperature fell and frosts occurred generally in the fruit districts, and some damage was sustained. After these dates generally favorable temperatures obtained for the remainder of the month. The highest temperatures occurred as a rule from the 25th to the 28th, the highest being 90° at Black Rock on the 25th and 27th. The lowest temperatures were reported on various dates, but principally on the 7th, 19th and 20th, the lowest being zero at Scofield on the 20th.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 55 per cent, and at 6 p. m. 36 per cent. At Modena at 6 a. m. it was 56 per cent, and at 6 p. m. 20 per cent.

PRECIPITATION.

The precipitation for the State averaged 0.63 inch, which is 0.55 inch below normal. The greatest local monthly amount was 5.00 inches at Silver Lake, and at Belknap Ranger Station,

Black Rock and Victor no rain was reported. Practically every station reported amounts below the normal for the month. The wettest periods were centered around the 3d, 12th, 18th, 19th and on the 29th, but there were no days of general rains. The greatest 24-hour amount was 1.28 inches at Brigham City on the 12th.

WIND.

The prevailing direction of the wind for the State was from the west. The average velocity at Salt Lake City was 8.6 miles per hour; the highest 39 miles per hour from the northwest on the 11th; and the prevailing direction from the northwest. At Modena the average velocity was 11.9 miles per hour; the highest 45 miles per hour from the south on the 11th; and the prevailing direction from the west.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 85 at Salt Lake City, and 73 at Modena.

For the State the average number of clear days was 15; partly cloudy, 9; and cloudy, 6.

CORRECTIONS.

February, 1916: Castle Dale, temperature data probably erroneous, should be omitted. March, 1916: Heber, total precipitation should be 3.05 inches, departure should be +0.73 inches; precipitation on the 19th should be 0.05 inch.

COMPARATIVE DATA FOR APRIL.

Year.	Temperature.			Average precipitation.	Total rainfall.	Number of days.			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891									
1892	46.8	87	11	1.00	3.7	5	9	13	8
1893	44.4	88	1	1.15	3.2	5	14	8	nw.
1894	45.8	91	4	0.86	4.4	4	14	8	nw.
1895	49.2	94	5	0.58	1.2	2	18	8	sw.
1896	41.0	87	-1	1.07	5.4	5	14	9	7
1897	47.0	93	6	0.89	...	5	15	10	5
1898	51.5	98	8	0.72	3.4	4	16	8	sw.
1899	48.2	90	11	0.58	2.8	3	15	9	6
1900	46.7	88	10	2.46	7.1	10	6	10	14
1901									
1902	46.2	89	0	0.60	5.4	4	14	9	7
1903	48.5	94	7	1.10	1.3	4	15	8	sw.
1904	46.0	95	4	1.01	3.5	5	15	8	s.
1905	48.2	94	10	0.70	4.5	3	16	8	6
1906	48.7	88	9	1.47	1.2	6	13	9	8
1907	50.6	95	2	0.98	6.8	8	12	9	n.
1908	49.4	89	-1	0.49	1.6	3	17	8	w.
1909	44.7	87	-2	1.18	4.3	5	14	8	n.
1910	51.8	95	7	0.39	1.1	2	16	8	n.
1911									
1912	46.4	88	-2	0.80	1.8	4	14	8	sw.
1913	43.2	88	-3	1.44	7.8	7	11	9	s.
1914	47.6	90	0	0.70	1.9	3	14	7	9
1915	49.1	91	14	1.94	1.3	8	9	12	sw.
1916	51.7	88	16	1.72	1.0	8	10	10	10

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.9 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1916.	1st	+4.5	+4.7	+5.2	+5.6
	15th	+4.6	+5.0	+5.4	+5.7

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Climatological data for April, 1916.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, inches.			Number of days.			Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total Snowfall, unmeasured.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.
Alton.....	Kane.....	7,000	1	46.0.....	75	27	23	54	40	0.73.....	T.....	0.55.....	.....	3	16	13	1	sw.....	Wm. M. Cox.
Beaver.....	Beaver.....	6,000	11	b44.8 - 0.3	78	28	14	19	50	T - 1.00.....	T.....	0.....	0	0	13	13	4	n.....	S. Z. Jenkins.
Black Rock.....	Millard.....	4,872	11	*51.8 + 3.8	90 ^a	25 ^a	20 ^a	30	58 ^a	0.00 - 0.93	0.00	0	0	0	13	13	4	w.....	Agent Salt Lake Route, E. F. Thompson.
Blanding.....	San Juan.....	6,000	8	46.7.....	74	23	23	19	82	0.65.....	0.55	1.5	4	15	8	7	7	.....	Perry A. Clark.
Bluff.....	San Juan.....	4,200	3	50.7.....	78	27	28	20	33	2.04.....	1.28.....	5.....	5	.....	.....	.....	.....	.....	N. Merrill Valentine.
Brigham City.....	Boxelder.....	4,305	3	50.7.....	78	27	28	20	33	2.04.....	1.28.....	5.....	5	.....	.....	.....	.....	.....	F. R. Curtis.
Burrville.....	Sevier.....	6,800	4	.....	70	24 ^a	.....	.....	.....	0.05 - 0.56	0.05	0	0	1	22	4	4	.....	Miss Zella Jeffs.
Castle Dale.....	Emery.....	5,500	16	.....	70	24 ^a	.....	.....	.....	0.05 - 0.56	0.05	0	0	1	11	12	7	.....	Parley Dalley.
Cedar City.....	Iron.....	6,750	10	.....	70	24 ^a	.....	.....	.....	0.05 - 0.56	0.05	0	0	1	22	4	4	.....	L. G. Peterson.
Center.....	Tooele.....	4,260	4	.....	70	24 ^a	.....	.....	.....	0.05 - 0.56	0.05	0	0	1	22	4	4	.....	A. C. Murphy.
Corinne.....	Boxelder.....	4,240	45	48.9 - 1.4	80	25	25	74	42	1.24 + 0.13	0.98	T	2	20	2	8	.....	S. W. Western.	
Deseret.....	Millard.....	4,541	20	50.1 + 2.3	84	27	19	84	49	0.08 - 0.79	0.08	0	0	1	17	8	5	n.....	M. M. Smith.
Duchesne.....	Duchesne.....	5,515	8	47.4.....	79	27	23	17	42	0.04.....	0.04	0.5	1	11	12	7	.....	Reclamation Service.	
East Portal.....	Tooele.....	7,606	3	50.7.....	78	27	28	20	33	2.04.....	1.28.....	5.....	5	.....	.....	.....	.....	D. C. Walken.	
Elberta.....	Emery.....	4,650	13	.....	70	24 ^a	.....	.....	.....	0.05 - 0.56	0.05	0	0	1	22	4	4	.....	H. C. Wickman.
Farmington.....	Davis.....	6,200	14	48.0 + 3.6	78	26	19	64	49	T - 0.28	T	T	0	0	1	8	5	n.....	Chas. Boylin.
Filmore.....	Millard.....	5,100	23	52.3 + 2.5	85	27	26	64	42	0.25 - 1.48	0.11	1.0	3	3	1	1	1	.....	J. J. Starley.
Ft. Duchesne.....	Uinta.....	4,941	27	*49.8 + 1.8	79 ^a	29	20 ^a	74	46 ^a	0.01 - 0.51	0.01	0	0	1	20 ^a	54	14	w.....	Geo. W. Dickson.
Frutland.....	Duchesne.....	6,725	5	46.2.....	79	25	19	20	50	0.15.....	0.15	1	21	4	5	5	w.....	J. E. Carey.	
Garland.....	Boxelder.....	4,248	3	49.0.....	80 ^a	24	26	6	40 ^a	1.23.....	0.55	T	5	12	8	10	s.....	J. T. Roberts.	
Garrison.....	Millard.....	4,850	11	*52.2.....	84 ^a	27	22 ^a	1	45 ^a	0.01	0.01	0	0	1	1	1	1	.....	Jas. F. Robison.
Government Creek.....	Tooele.....	5,277	14	48.8 + 2.6	80	27	22	6	37	0.83 - 0.23	0.28	2.0	5	22	3	5	w.....	Walter James.	
Green River.....	Emery.....	4,080	15	*55.0 + 1.2	87 ^a	24	21 ^a	20	47 ^a	0.10 - 0.43	0.08	0	0	2	13 ^a	5 ^a	sw.....	E. E. Adams.	
Hanksville.....	Wayne.....	4,200	4	50.7 + 2.5	80	26	28	20	38	1.89 - 0.09	0.96	2.7	4	22	5	3	n.....	F. J. Weber.	
Heber.....	Wasatch.....	5,593	22	45.5 + 1.5	80	28	15	20	52	0.74 - 0.54	0.26	T	6	11	8	11	s.....	John Crook.	
Henefer.....	Summit.....	5,301	15	45.8 + 2.2	80	27	20	74	60	0.93 - 0.73	0.32	1.0	5	8	12	10	nw.....	Wm. Brewen.	
Ibapah.....	Tooele.....	7,500	10	46.5.....	81	27	19	7	48	0.87.....	0.42	0.5	3	17	11	2	nw.....	W. M. Chastain.	
Iosepa.....	Kane.....	4,925	7	53.6.....	86	27	25	24	52	1.05.....	1.03	2	2	15	7	7	.....	James K. Halemanu.	
Kanab.....	Boxelder.....	4,230	35	48.4 - 1.7	80	25 ^a	24	64	42	0.08 - 0.60	0.08	0	0	1	8	15	7	.....	D. D. Rust.
LavSal.....	Washington.....	3,400	3	*60.0.....	85 ^a	27	25 ^a	20	48 ^a	0.16.....	0.15	0	2	14 ^a	8 ^a	2 ^a	nw.....	F. W. Klock.	
Leeds (near).....	Leeds (near).....	7,000	12	44.7 + 0.5	75	28	18	20	39	0.94 + 0.17	0.55	0	0	5	12	16	2	.....	La Sal Liv Stock Co.
Lehi.....	Utah.....	4,550	2	50.0.....	85 ^a	27	25 ^a	20	42	0.08 - 0.60	0.08	0	0	1	13	12	6	.....	B. F. Anderson.
Lemay.....	Boxelder.....	4,221	4	52.4.....	83	27	32	74	30	0.10.....	0.10	0	0	1	13	12	6	s.....	Joseph Anderson.
Levau.....	Juab.....	5,010	25	48.8 + 2.4	81	27	23	20	39	0.45 - 1.20	0.35	0	0	2	17	7	6	s.....	E. J. Ineck.
Logan.....	Cache.....	4,507	24	60.4 + 3.0	77	27	24	19	38	1.73 + 0.11	1.00	2.0	4	16 ^a	7 ^a	6 ^a	.....	John C. Jensen.	
Lone Tree.....	Uinta.....	4,050	7	53.6.....	86	27	25	24	52	1.05.....	1.03	0	0	1	17	8	5	w.....	Experiment Station.
Low.....	Tooele.....	4,602	4	47.0.....	80	26	21	19	37	0.05.....	0.05	0	0	1	13	12	6	.....	J. A. Kay.
Lower American Fork.....	Utah.....	5,063	1	51.9.....	82	27	26	20	34	0.21.....	0.15	0	0	14 ^a	9 ^a	8 ^a	.....	Agt. Western Pacific Co.	
Lower Mill Creek.....	Salt Lake.....	4,950	2	53.8.....	82	27	27	20	30	0.74.....	0.30	2.5	5	13	11	6	n.....	W. S. Greenwood.	
Lucin.....	Boxelder.....	4,504	8	48.6.....	88	28	20	20	46	0.04.....	0.04	0	0	1	13	15	2	e.....	D. Folker.
Manila.....	Uinta.....	6,226	5	40.2.....	71	27	10	17	50	0.40.....	0.40	0	0	1	10	16	4	.....	E. C. Puryear.
Manti.....	Sanpete.....	5,576	20	48.2 + 1.9	78	27	18	20	42	0.21 - 0.84	0.16	T	2	9	3	18	.....	D. M. Nelson.	
Marysville.....	Plute.....	6,180	14	48.6 + 2.0	78	27	21	19	37	0.05.....	0.05	0	0	1	17	8	5	w.....	J. M. Anderson.
Meadowville.....	Rich.....	6,200	14	*48.6 + 2.0	78	27	21	19	43 ^a	0.77 - 1.02	0.40	1.0	3	20	4	6	.....	A. Sovka.	
Midlake.....	Boxelder.....	4,235	4	50.0.....	78	23	26	19	34	0.21.....	0.15	0	0	14 ^a	9 ^a	8 ^a	.....	J. S. Moffat.	
Midvale.....	Salt Lake.....	4,365	3	51.0.....	86	25	24	7	48	0.79.....	0.28	0.2	6	14	8	8	s.....	Stella M. Gibson.	
Miford.....	Beaver.....	4,962	7	49.6.....	80	25	18	20	50	0.11.....	0.10	0	2	11	13	6	.....	E. D. Camomile.	
Moab.....	Grand.....	4,000	25	55.4 + 0.1	86	23	27	6	49	0.46 - 0.06	0.25	0	0	4	9	13	8	.....	Delta Land & Water Co.
Modena.....	Iron.....	5,479	14	48.2 + 1.3	78	27	21	30	44	0.23 - 0.56	0.16	0	0	3	17	10	3	w.....	Henry Crouse.
Monticello.....	San Juan.....	7,050	7	44.7.....	74	25	20	30	37	1.22.....	0.50	7.5	5	13	15	2	nw.....	U. S. Weather Bureau.	
Morgan.....	Morgan.....	5,068	10	*45.8 + 0.1	79 ^a	27	22 ^a	7	44 ^a	1.05 - 0.26	0.34	0.3	7	16	10	4	.....	E. H. Barton.	
Moronl.....	Sanpete.....	6,000	7	48.0.....	79	27	19	20	38	0.30.....	0.15	0.2	0	3	15	10	5	s.....	Dash Smith.
Mosida.....	Utah.....	4,510	3	48.8.....	79	27	22	84	48	0.26.....	0.20	0	0	2	17	7	18	s.....	B. F. Ellason.
Mountain Home.....	Duchesne.....	6,000	2	45.1.....	74 ^a	24	19	20	41 ^a	0.02.....	0.02	T	1	19	4	7	w.....	Oscar Wilkins.	
Nephi (near).....	Juab.....	5,119	10	47.9.....	80	27	20	20	42	0.28.....	0.23	0	0	2	8 ^a	9 ^a	9 ^a	n.....	J. W. Jones.
Oak City.....	Millard.....	4,900	8	.....	70	24	21	19	37	0.05.....	0.05	0	0	1	13	12	6	.....	Jos. L. Anderson.
Ogden.....	Weber.....	4,910	44	52.4 + 0.1	84	27	29	74	42	1.68 + 0.28	0.69	.....	7	26	1	3	.....	Ralph Shorten.	
Panguitch.....	Garfield.....	6,560	3	50.3 + 0.1	84	27	20	74	42	1.68 + 0.28	0.69	.....	7	26	1	3	.....	H. L. Strombel.	
Park City.....	Summit.....	7,000	10	49.1 + 2.2	78	27	24	19	37	1.00 - 0.08	0.98	.....	2	19	5	6	.....	Alex Matheson.	
Parowan.....	Iron.....	5,970	24	49.1 + 2.2	78	27	24	20	47 ^a	T - 0.70	T	0	0	18	10	2	sw.....	W. S. Hall.	
Pasadena Ranch.....	Summit.....	6,335	1	49.1	82	27	18	30	49	0.66.....	0.45	0	6	14	14	2	sw.....	Granville Deming.	
Pinto.....	Washington.....	5,907	17	*48.7 + 3.6	75 ^a	27	19 ^a	20	42 ^a	0.60	0.40	6.0	2	15 ^a	0 ^a	10 ^a	.....	J. H. Harrison.	
Price.....	Carbon.....	5,557	4	50.0 + 0.5	85	27	22	74	48	0.39 - 1.01	0.28	1.0	4	9	11	10	.....	Walter Bass.	
Provo.....	Millard.....	5,350	21	*52.6 + 5.3	83	27	20	20	47 ^a	T -									

Daily precipitation for April, 1916.

Continued on page 38.

Daily temperatures for April, 1916.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Blanding.....	Maximum 53	55	47	47	42	42	49	60	64	62	62	46	47	61	60	60	59	49	52	57	62	61	74	65	62	62	66	67	66	46	56.8	
	Minimum 28	33	39	31	30	28	28	31	32	40	40	37	35	33	38	41	42	34	23	34	44	42	43	43	48	42	45	40	30	36.6		
Corinne.....	Maximum 61	60	57	58	51	50	56	62	65	75	72	50	57	60	61	65	67	65	60	54	61	62	75	75	80	77	74	79	55	62	63.5	
	Minimum 36	35	33	30	33	29	25	27	35	35	47	28	33	32	38	35	38	30	25	30	33	37	35	33	46	45	42	41	35	28	34.3	
Deseret.....	Maximum 67	65	61	62	56	56	60	67	75	80	67	58	58	66	70	76	74	53	45	62	74	75	78	80	82	84	80	52	58	67.4		
	Minimum 27	38	38	36	32	22	20	19	26	35	53	29	28	24	34	28	45	41	31	19	30	36	34	35	43	37	40	42	37	25	32.8	
Duchesne.....	Maximum 58	58	64	57	54	46	57	63	67	75	65	57	56	63	64	68	68	54	46	56	70	73	76	73	71	74	79	73	65	52	63.4	
	Minimum 23	33	35	27	26	25	28	26	28	40	38	34	29	24	40	28	34	31	31	23	30	34	34	38	35	38	35	31	30	31.5		
Elberta.....	Maximum
Emery.....	Maximum 60	61	63	65	62	63	60	62	61	72	62	60	61	60	65	71	70	68	60	61	71	75	76	78	77	60	69	75	66	66	66.3	
	Minimum 29	25	21	23	19	20	22	25	22	29	35	30	35	36	35	36	26	27	25	19	22	41	35	38	49	42	37	38	32	29	29.6	
Fillmore.....	Maximum 66	62	60	57	51	60	70	75	79	66	63	60	65	70	72	70	61	57	65	72	78	78	82	83	82	85	81	64	53	67.8		
	Minimum 33	38	36	35	38	26	31	43	41	43	33	32	27	40	44	50	37	28	26	36	37	36	40	53	47	47	45	32	28	36.8		
Ft. Duchesne.....	Maximum 54	62	55	56	58	63	73	75	65	64	65	62	70	73	70	71	73	69	70	71	75	78	75	77	77	77	79	74	54	67.7		
	Minimum 23	22	37	35	38	20	23	27	33	35	34	20	23	30	31	34	30	26	20	29	31	34	50	55	54	54	33	23	32.0			
Fruitland.....	Maximum 53	61	62	55	48	56	58	60	75	73	64	63	57	58	60	70	72	75	79	77	76	78	70	65	65	65	65	65	64	64.5		
	Minimum 21	27	31	26	27	28	26	28	26	28	36	30	23	25	29	30	29	20	30	21	19	21	25	21	39	29	31	29	30	27.0		
Government Creek.....	Maximum 61	56	54	51	48	55	64	68	75	67	50	51	62	68	70	64	46	58	70	65	72	77	75	76	80	72	66	54	62.7			
	Minimum 34	37	31	29	32	22	24	30	39	41	46	32	27	29	42	31	44	32	24	28	38	36	35	42	50	42	46	44	35	31	35.0	
Green River.....	Maximum 66	70	65	65	63	57	64	81	75	79	64	68	78	79	78	72	61	63	75	82	81	87	84	84	85	85	85	85	85	87.2	
	Minimum 27	37	43	37	35	29	26	20	30	30	39	40	39	35	37	30	37	34	21	30	39	44	40	54	47	44	44	44	44	44	43.5	
Henefer.....	Maximum 61	52	56	52	56	48	55	63	66	75	64	51	57	66	61	66	67	62	46	54	63	65	70	77	78	76	80	71	58	57	62.3	
	Minimum 31	38	33	24	30	25	20	23	28	30	39	38	23	23	29	30	31	33	27	20	28	29	30	35	35	30	32	37	26	29.4		
Ibapah.....	Maximum 65	63	68	68	63	62	60	69	72	76	68	47	64	65	65	67	70	57	47	62	69	69	71	79	79	81	75	67	67	64.3		
	Minimum 30	27	31	23	27	20	19	22	27	32	42	24	25	23	28	32	34	32	27	20	29	32	36	38	35	36	33	38	37	28.7		
Kelton.....	Maximum 58	60	56	61	50	52	61	61	71	69	67	60	70	72	68	65	68	55	50	60	60	64	68	74	80	73	80	65	65	60.4		
	Minimum 29	32	30	26	34	24	21	25	32	30	29	27	30	33	30	38	41	40	28	24	34	32	31	34	38	43	40	47	35	40	32.7	
La Sal.....	Maximum 51	55	50	45	48	42	46	53	60	67	64	56	48	50	60	65	64	49	49	62	65	66	70	69	67	70	72	58	47	57.6		
	Minimum 28	31	36	31	26	22	21	26	27	36	38	31	30	29	30	36	37	39	26	18	30	36	41	41	42	39	38	41	32	22	31.8	
Leeds (near) §§.....	Maximum
Lemay.....	Maximum
	Minimum 58	49	58	60	54	50	58	63	60	71	60	61	58	63	60	66	68	59	50	60	62	68	73	74	78	73	83	69	60	70	62.9	
	Minimum 37	40	37	38	38	34	32	35	38	45	40	40	42	41	40	44	43	38	32	38	40	44	43	46	54	52	54	55	47	48	41.8	
Levan.....	Maximum 63	57	54	51	51	45	56	64	69	77	63	50	54	64	65	72	70	57	43	46	55	68	75	76	77	81	76	47	53	62.6		
	Minimum 30	40	38	32	33	25	24	26	31	38	46	35	32	27	36	33	44	36	29	23	32	37	40	47	44	43	35	30	31	35.1		
Logan.....	Maximum 60	54	56	56	53	48	57	62	65	70	72	58	56	65	62	65	67	65	64	55	58	64	69	77	77	77	73	65	60	62.9		
	Minimum 40	39	32	35	34	38	30	36	40	42	55	32	30	34	38	48	40	44	35	27	29	34	38	48	48	48	31	31	37.9			
Low §§.....	Maximum 41	46	40	43	41	46	45	56	60	64	44	42	45	44	46	44	48	53	36	31	35	43	44	34	38	49	46	34	32	40.4		
	Minimum 37	38	39	32	34	32	36	36	41	42	30	30	32	33	31	36	36	31	21	33	52	57	57	57	57	57	57	57	57	40.4		
Lucin.....	Maximum 60	65	60	61	60	60	62	65	68	75	71	50	60	65	64	66	61	48	59	60	61	60	68	78	79	80	88	80	75	80	64.6	
	Minimum 36	30	29	27	28	28	27	25	30	35	40	30	35	40	32	30	32	38	30	20	30	30	32	38	40	45	40	39	38	32.7		
Manilla.....	Maximum 55	60	54	57	50	56	66	71	72	75	54	55	64	68	68	65	64	69	72	74	75	78	78	78	78	78	78	78	78	63.9		
	Minimum 26	38	37	32	32	26	26	22	31	34	39	33	30	27	37	38	38	36	30	21	32	36	33	33	39	40	39	39	39	32.4		
Manti.....	Maximum 60	65	61	55	51	56	62	68	72	75	61	52	60	62	64	67	64	69	71	72	76	78	78	78	78	78	78	78	78	64.9		
	Minimum 25	26	27	24	22	28	28	32	35	40	40	27	24	28	30	37	37	33	30	21	25	26	21	25	29	29	29	29	29	23.2		
Meadowville.....	Maximum 53	46	46	46	52	43	54	56	58	60	70	49	45	49	57	57	63	68	40	49	68											

TOMAS FRANCIS, JR., INCORPORATED, APRIL, 1810.

This historical map illustrates rainfall patterns across the Mississippi River basin. The map features a grid of latitude and longitude lines. Shaded areas represent different rainfall amounts, indicated by the following legend:

- 0 to 2 inches.
- 2 to 4 inches.
- 4 to 6 inches.
- 6 to 8 inches.
- Over 8 inches.

The map shows several regions of high rainfall (over 8 inches) along the western and southern edges of the basin, particularly in the Great Plains and the Gulf Coast area. Contour lines are drawn to show the distribution of rainfall, with values ranging from 0.5 to 8 inches. Key locations labeled on the map include St. Louis, Memphis, New Orleans, Mobile, Pensacola, Tampa, St. Petersburg, and various points along the river like Vicksburg, Natchez, and Baton Rouge. A large shaded area labeled "No RAIN" is visible in the central part of the basin. A scale bar at the bottom right indicates distances up to 100 miles.

Daily precipitation for April, 1916.

Continued from page 35.

Stations.	Day of month.																														Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Randolph																																	
Reed																																	
Revere	.10	.08																															
Richfield																																	
Richmond |||	.16	.04	T	T	.09	.03	.04																										
Riverville	.68																																
St. George.....(C)																																	
Saltair	.25																																
SALT LAKE CITY***	.08	.05																															
Santaquin																																	
Scipio																																	
Scofield.....(C)																																	
Silver City																																	
Silver Lake †																																	
Snake Creek |||	.11	.35	T																														
Snowville																																	
Spanish Fork	.08																																
Springdale.....(C)																																	
Standrod																																	
Sunnyside.....(C)	.10																																
Teasdale.....(C)																																	
Thistle																																	
Thompson's.....(C)																																	
Tooele	.22	.06																															
Tremonton |||	.02																																
Tropic.....(C)																																	
Trout Creek Ranger.....(C)																																	
University of Utah	.11																																
Utah Experiment Station																																	
Vernal.....(C)																																	
Victor.....(C)																																	
Watson (near).....(C)																																	
Wendover	.11																																
Whiskey Creek |||																																	
Winder																																	
Woodruff	.70	.07	.04																														
Woodside.....(C)																																	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

*** Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

* Precipitation included in the next following measurement. † Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow.

All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

MAY, 1916

BY

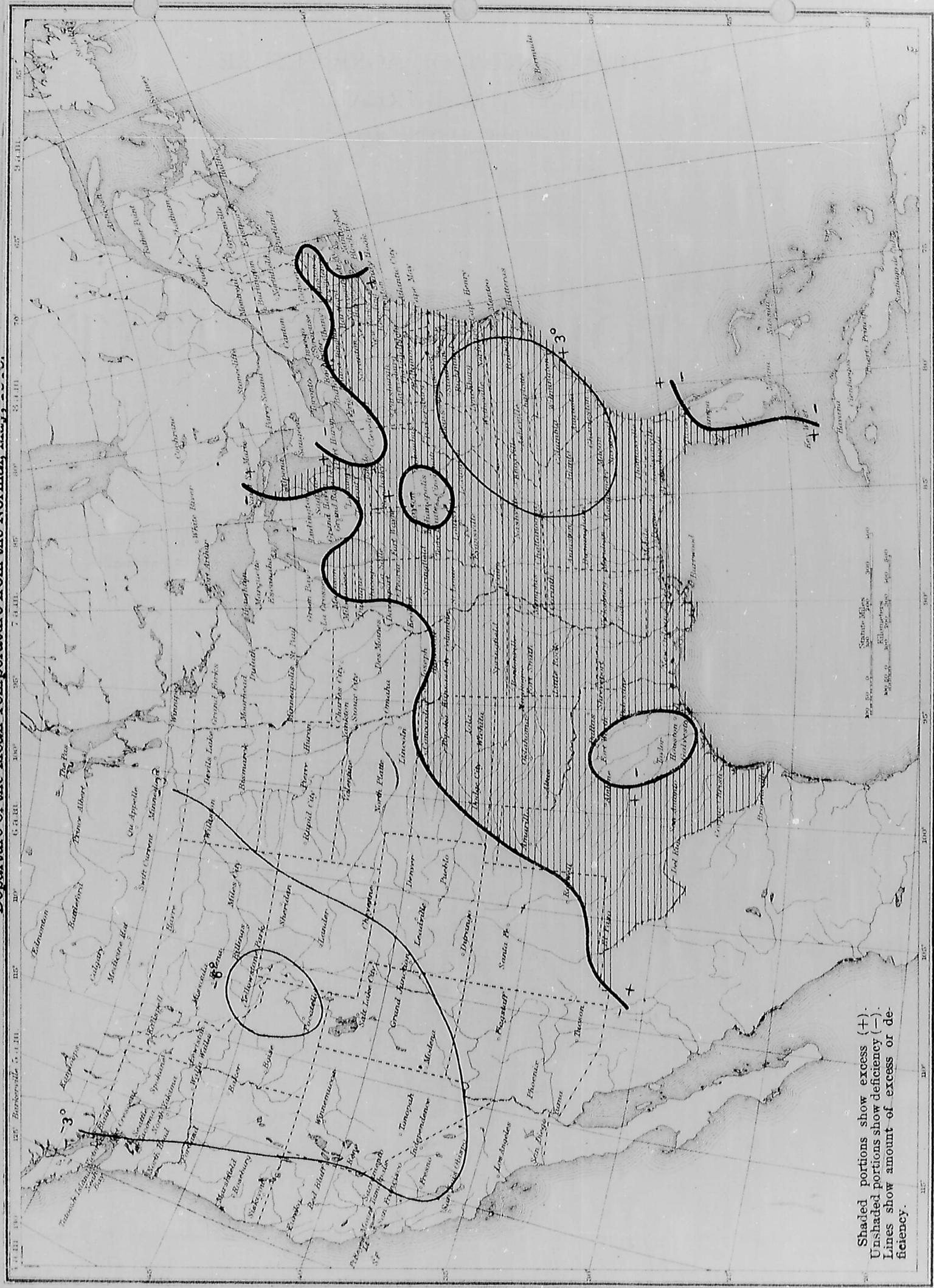
ALFRED H. THIESSEN

METEOROLOGIST



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
JUNE 19, 1916.

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Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Meteorologist.

Vol. XVIII. SALT LAKE CITY, UTAH, MAY, 1916. No. 5.

GENERAL SUMMARY.

May was unusually cold, windy and dry. Many report that it was the coldest May for 50 years from an agricultural viewpoint, but the records show that May of 1908 was somewhat colder. The precipitation was the lightest for May since 1913, in marked contrast to May of last year, one of the wettest months of that name on record. Crops were backward in all parts of the State. Grain and alfalfa survived the cold weather in some parts of the State, while in other parts they were replanted. Beets withstood the cold admirably, but most garden products were replanted. Fruit was generally killed. There were a few instances, however, where the fruit in an entire orchard was not damaged, while in others a complete loss was sustained. Ranges were dry, and feed was reported scarce in the northwest portion of the State.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 29.82 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.24 inches at Salt Lake City on the 10th. The lowest was 29.26 inches at Modena on the 23d.

TEMPERATURE.

The monthly mean temperature for the State was 51.5° , which is 3.4° below normal. Of the 80 stations with records of 10 years or more, only 2 reported monthly mean temperatures above normal, and the remainder below. The greatest plus departure was 1.1° at Emery, whose monthly mean was 53° ; and the greatest minus departure was 10.3° at Kelton, whose monthly mean temperature was 49.5° . The lowest temperatures occurred, as a rule, on the 10th when freezing temperatures were general. The lowest for the State was 10° at Pineview, while almost every section of the State experienced temperatures below the freezing point. In the Provo orchard district 25° was observed, and at Tremonton 20° . The warmest portion of the month was from the 4th to the 9th, the highest temperature being 101° on the 8th at Kanab, but most stations reported their highest temperatures on the 6th.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 48 per cent, and at 6 p. m. 29 per cent. At Modena at 6 a. m. it was 50 per cent, and at 6 p. m. 22 per cent.

PRECIPITATION.

The precipitation for the State averaged 0.50 inch, which is 0.99 inch below normal. The greatest local monthly amount was 1.45 inches at Pasadena Ranch. Ten stations reported an entire absence of precipitation, while three reported only traces. Every station having a record of ten years or more reported

monthly amounts below normal except Cedar City, Moab and Pinto, where somewhat more than normal amounts were recorded. Practically no moisture occurred from the 1st to the 17th, inclusive. Rains were general on the 19th, and a few scattered showers fell during the week following. The greatest 24-hour amount was 1.26 inches on the 19th at Pasadena Ranch.

WIND.

The prevailing direction of the wind for the State was from the southwest. The average velocity at Salt Lake City was 9.3 miles per hour; the highest 37 miles per hour from the southeast on the 24th; and the prevailing direction from the northwest. At Modena the average velocity was 13.2 miles per hour; the highest 59 miles per hour from the south on the 23d; and the prevailing direction from the southwest.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 77 at Salt Lake City, and 85 at Modena.

For the State the average number of clear days was 17; partly cloudy, 8; and cloudy, 6.

CORRECTIONS.

April, 1916: Black Rock, total precipitation should be trace; greatest in 24 hours should be trace; precipitation on the 18th should be trace. Lower Mill Creek, monthly mean temperature should be 52.4° . Nada, precipitation on the 6th should be trace. Woodside, monthly mean temperature should be 53.2° .

COMPARATIVE DATA FOR MAY.

Year.	Temperature.			Average precipitation.	Total snowfall.	Number of days.			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891									
1892	54.8	98	20	1.65	9.7	7			
1893	54.8	96	12	0.77	0.1	4	17	5	nw.
1894	58.2	98	10	0.44	2.1	3	17	4	sw.
1895	57.0	99	19	1.16	3.3	6	15	9	10
1896	51.0	104	12	1.52	2.3	5	12	12	7
1897	60.2	104	12	0.42	4	15	12	4	sw.
1898	58.2	94	20	3.02	11	11	9	11	sw.
1899	52.8	96	15	0.70	2.7	4	11	12	8
1900	59.5	101	21	0.36	T.	2	18	8	5
1901									
1902	59.8	98	15	1.29	T.	4	14	11	6
1903	56.2	99	13	0.64	0.5	3	17	8	6
1904	53.3	100	15	1.60	4.4	6	10	8	7
1905	50.2	100	15	1.71	0.4	6	15	9	7
1906	52.3	98	18	1.77	1.5	8	12	10	9
1907	55.1	96	13	1.98	0.2	6	15	8	sw.
1908	52.7	97	16	2.04	0.8	7	10	12	9
1909	50.7	90	11	2.35	6.7	8	11	9	11
1910	52.6	92	10	1.02	0.2	4	16	9	6
1911	57.8	104	15	0.42	0.5	3	16	9	6
1912									
1913	55.0	100	12	0.52	0.8	2	15	10	6
1914	53.9	96	10	0.88	2.1	5	12	10	9
1915	57.3	107	12	0.48	0.4	2	14	10	7
1916	58.2	101	17	0.65	T.	5	15	10	6

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.0 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1916.	{ 1st +4.6 +4.7 +5.2 +5.6 +6.0												
	{ 15th +4.6 +5.0 +5.4 +5.7 +6.0												

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Climatological data for May, 1916.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, inches.			Number of days.			Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total Snowfall, unmeted.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.		
Alton.	Kane.	7,000	1	48.5	.....	78	3†	20	25	44	0.35	.....	0.30	0	2	20	9	2	sw.	Wm. M. Cox.
Beaver.	Beaver.	6,000	11	53.0	- 2.1	90	4†	18	24†	60	0.20	- 0.72	0.20	0	1	13	13	5	.....	S. Z. Jenkins.
Black Rock.	Millard.	4,872	11	53.0	- 2.1	73	9	27	15	31	0.39	.....	0.39	0.5	1	23	2	6	sw.	Agent Salt Lake Route.
Blanding.	San Juan.	6,000	8	51.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. F. Thompson.	.....	.....	.....	.....	Perry A. Clark.
Bluff.	San Juan.	4,200	8	52.5	82	7	29	10	41	1.24	0.46	0	5	N. Merrill Valentine.
Brigham City.	Boxelder.	4,305	8	52.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. R. Curtis.	.....	.....	.....	.....	Miss Zelia 'eds.
Burryville.	Sevier.	6,800	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Parley Darley.	.....	.....	.....	.....	.....
Castle Dale.	Emery.	5,500	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. C. Peterson.	.....	.....	.....	.....	A. C. Murphy.
Cedar City.	Iron.	5,750	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Western.	.....	.....	.....	.....	M. M. Smith.
Center.	Tooele.	4,250	4	.....	87*	6	.....	.....	.....	.....	0.96	+ 0.24	0.90	0	2	21	6	4	n.	Reclamation Service.
Corinne.	Boxelder.	4,240	45	51.8	- 8.1	83	6	22	10	53	0.47	.....	0.47	0	1	21	3	3	sw.	D. C. Walkley.
Deseret.	Millard.	4,541	20	53.2	- 2.6	85	4†	22	1†	54	0.35	- 0.71	0.48	0	2	15	6	10	w.	H. C. Wickman.	
Duchesne.	Duchesne.	5,515	8	52.0	.....	83	6	22	1	48	T.	.....	T.	0	1	20	6	5	s.	Chas. Boylin.
East Portal.	Wasatch.	7,606	3	40.4	.....	66	29	12	1	42	0.08	.....	0.05	T.	2	12	11	8	w.	J. J. Starley.
Elberta.	Utah.	4,650	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. W. Dickson.	.....	.....	.....	.....	J. E. L. Carey.
Emery.	Emery.	6,200	14	53.0	+ 1.1	85	6†	20	1†	53	0.00	- 0.45	0.00	0	0	15	0	16	n.	J. T. Roberts.	
Farmington.	Davis.	4,268	14	54.0	- 1.7	86	6	26	10	45	0.31	- 2.49	0.15	T.	3	25	3	3	sw.	Jas. F. Robison.	
Fillmore.	Millard.	5,100	23	55.4	- 2.1	87	4†	26	10†	43	0.77	- 0.79	0.65	0	2	17	5	9	w.	Walter James.	
Ft. Duchesne.	Uinta.	4,941	27	51.8	- 4.2	85	6	21	1†	51	0.00	- 0.70	0.00	0	0	21	10	0	w.	E. Adams.	
Fruitland.	Duchesne.	6,725	5	49.9	.....	81†	7	15	15	56†	0.07	.....	0.07	0	1	25	5	1	w.	F. J. Weber.
Garland.	Boxelder.	4,248	3	51.0	.....	83	5	20	9	44	0.77	.....	0.53	0	4	10	9	12	s.	John Crook.
Garrison.	Millard.	4,850	11	54.6	.....	85†	4	22†	27	53†	0.45	.....	0.45	0	1	20	1	1	w.	W. M. Chastain.
Government Creek.	Tooele.	5,277	14	51.0	- 2.0	84	6	22	12	46*	0.65	- 0.90	0.55	0	3	29	5	3	w.	James K. Halemanu.	
Green River.	Emery.	4,080	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. D. Rust.	.....	.....	.....	.....	F. W. Klock.
Hanksville.	Wayne.	4,200	4	54.4	.....	84	23†	25	1†	53	0.00	.....	0.00	0	0	16	13	2	sw.	La Sal Live Stock Co.
Heber.	Wasatch.	5,593	22	50.8	- 0.8	80	6†	20	1††	50	0.10	- 1.47	0.10	0	1	17	5	9	w.	B. F. Anderson.	
Henefer.	Summit.	5,301	15	47.2	- 3.6	83	6	15	10	54	0.21	- 0.64	0.10	T.	3	14	10	7	nw.	Joseph Anderson.	
Ibapah.	Tooele.	7,500	10	47.1	.....	83	6	12	10	59	0.54	.....	0.42	0	2	10	20	1	nw.	J. Ineck.
Iosepa.	Tooele.	4,350	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John C. Jensen.	.....	.....	.....	.....	Experiment Station.
Kanab.	Kane.	4,928	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Kay.	.....	.....	.....	.....	Agt. Western Pacific Co.
Kelton.	Boxelder.	4,230	35	49.5	- 10.3	85	6	21	13	45	0.21	- 0.63	0.16	0	2	6	15	10	nw.	W. S. Greenwood.	
La Sal.	San Juan.	7,000	12	51.9	0.0	77†	8	27*	1	35*	0.54	- 0.20	0.54	0	1	23	1	7	sw.	D. Folker.	
Leeds (near).	Washington.	8,400	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Puryear.	.....	.....	.....	.....	D. M. Nelson.
Lehi.	Boxelder.	4,550	2	52.9	.....	84†	8	25*	15	50	0.92	.....	0.82	0	2	15*	6*	5*	nw.	J. M. Anderson.
Lemay.	Juab.	4,221	4	55.6	.....	80	6†	33	10	52	0.23	.....	0.25	0	1	14	8	9	n.	A. Soyka.
Levan.	Cache.	4,507	24	51.4	- 2.9	72	6	16*	10	41*	0.91	- 1.43	0.30	0	5	18*	10*	5*	nw.	B. S. Moffat.	
Logan.	Ontario.	4,602	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. W. Hall.	.....	.....	.....	.....	Stella M. Gibson.
Lone Tree.	Tooele.	4,602	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. D. Camomile.	.....	.....	.....	.....	Delta Land & Water Co.
Lower American Fork.	Utah.	5,063	1	54.2	.....	83*	29	29*	10	40*	0.42	.....	0.60	0	1	21	3	7	w.	Henry Crouse.
Lower Mill Creek.	Salt Lake.	4,959	2	53.2	.....	80*	4	20	10	38*	1.14	.....	0.87	T.	5	17	8	6	n.	U. S. Weather Bureau.
Lucin.	Boxelder.	4,504	8	51.4	.....	87	6	22	10	49	0.65	.....	0.60	0	2	17	12	2	e.	E. W. Barton.
Manila.	Uinta.	6,225	5	46.4	.....	80	6†	15	15	46	0.39	.....	0.20	0	3	15	12	4	n.	D. S. Ellason.
Manti.	Sanpete.	5,576	20	49.8	- 5.3	81	6†	20	15	46	0.65	- 0.49	0.54	T.	2	7	5	19	s.	B. F. Ellison.	
Marysville.	Platte.	6,180	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Oscar Wilkins.	.....	.....	.....	.....	J. W. Jones.
Meadowlife.	Rich.	6,200	14	46.4	- 2.3	79	6	19	10	45	0.76	- 1.04	0.40	T.	3	20	4	7	w.	Wm. I. Aldredge.	
Midlake.	Boxelder.	4,235	4	57.2	.....	84	9	32	7	47	.....	.....	0.24	0	5	22	9	7	e.	Ralph Shorten.
Midvale.	Salt Lake.	4,365	3	53.8	.....	89	6	22	10	51	0.70	.....	0.67	0	2	16	10	5	s.	H. L. Strembel.
Millford.	Beaver.	4,962	7	52.6	.....	87	4	20	14†	53	0.55	.....	0.45	0	2	12	18	6	n.	Alex Matheson.
Mouh.	Grand.	4,000	25	60.6	- 3.3	91	9	30	16	47	0.90	+ 0.17	0.00	0	1	15	12	4	n.	W. S. Hall.	
Modena.	Iron.	5,479	14	51.8	- 2.8	89	4	21	14	47	0.62	- 0.25	0.62	T.	2	17	17	1	sw.	Granny Denning.	
Monticello.	San Juan.	7,050	7	50.3	.....	75	9	25	15	33	0.30	.....	0.30	0	1	24	6	1	sw.	J. H. Harrison.
Morgan.	Morgan.	5,068	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Walter Bass.	.....	.....	.....	.....	Reclamation Service.
Moroni.	Sanpete.	6,000	7	50.6	.....	81	6	22	15	48	0.20	.....	0.18	T.	2	11	9	11	sw.	L. E. Jensen.
Mosida.	Utah.	4,510	3	52.7	.....	84	6	20	15	48	0.50	.....	0.40	0	2	7	2	22	sw.	Eugene Bone.
Mountain Home.	Duchesne.	6,000	2	49.6	.....	80*	8	20*	15	46*	0.00	.....	0.00	0	0	16*	9*	4*	w.	David Gourley.
Nephi (near).	Juab.	6,119	10	50.8	.....	88	6	20	10	47	0.96	.....	0.74	0	2	17*	6*	5*	s.	J. E. Larson.
Oak City.	Millard.	4,900	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. S. Weather Bureau.	.....	.....	.....	.....	Win. Broadbent.
Ogden.	Weber.	4,810	41	55.1	- 6.1	86	6	26	10	44	0.76	- 1.03	0.34	0	4	24	6	1	sw.	Thos. Memmott.	
Panguitch.	Gifford.	6,500	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. Newren.	.....	.....	.....	.....	Snake Creek.
Park City.	Summit.	7,000	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Orrock.	.....	.....	.....	.....	Snowyville.
Parowan.	Iron.	5,070	24	51.8	- 3.1	80	6†	25	12	42	0.60	- 0.47	0.47	T.	2	15	9	7	w.	Spanish Fork.	
Pasadena Ranch.	Iron.	5,181	1	51.6	.....	85	4	18	1†	51	1.45	.....	1.26	0	2	22	8	3	s.	Pine View.
Pine View.	Summit.	5,335	6	48.2	.....	78*	6	10*	10	51*	0.10	.....	0.10	0	1	16*	6*	4*	sw.	Pinto.
Pinto.	Washington.	5,697	17	46.6	- 2.8	77*	5	15*	14	51*	1.12	+ 0.20	0.87	0	2	23*	3*	3*	s.	Price.	
Price.	Carbon.	5,557	4	53.2	.....	85	6	25	2	58	0.00	.....	0.00	0	0	12	15	4	nw.	Provo.
Provo.	Iron.	4,552	21	52.0	- 5.2	84	6	23	1†	49	0.38	- 1.37	0.23	T.	3	19	6	6	sw.	Richfield.	
Ridgefield.	Tooele.	5,350	21	50.0	.....	84	6	20	10	45										

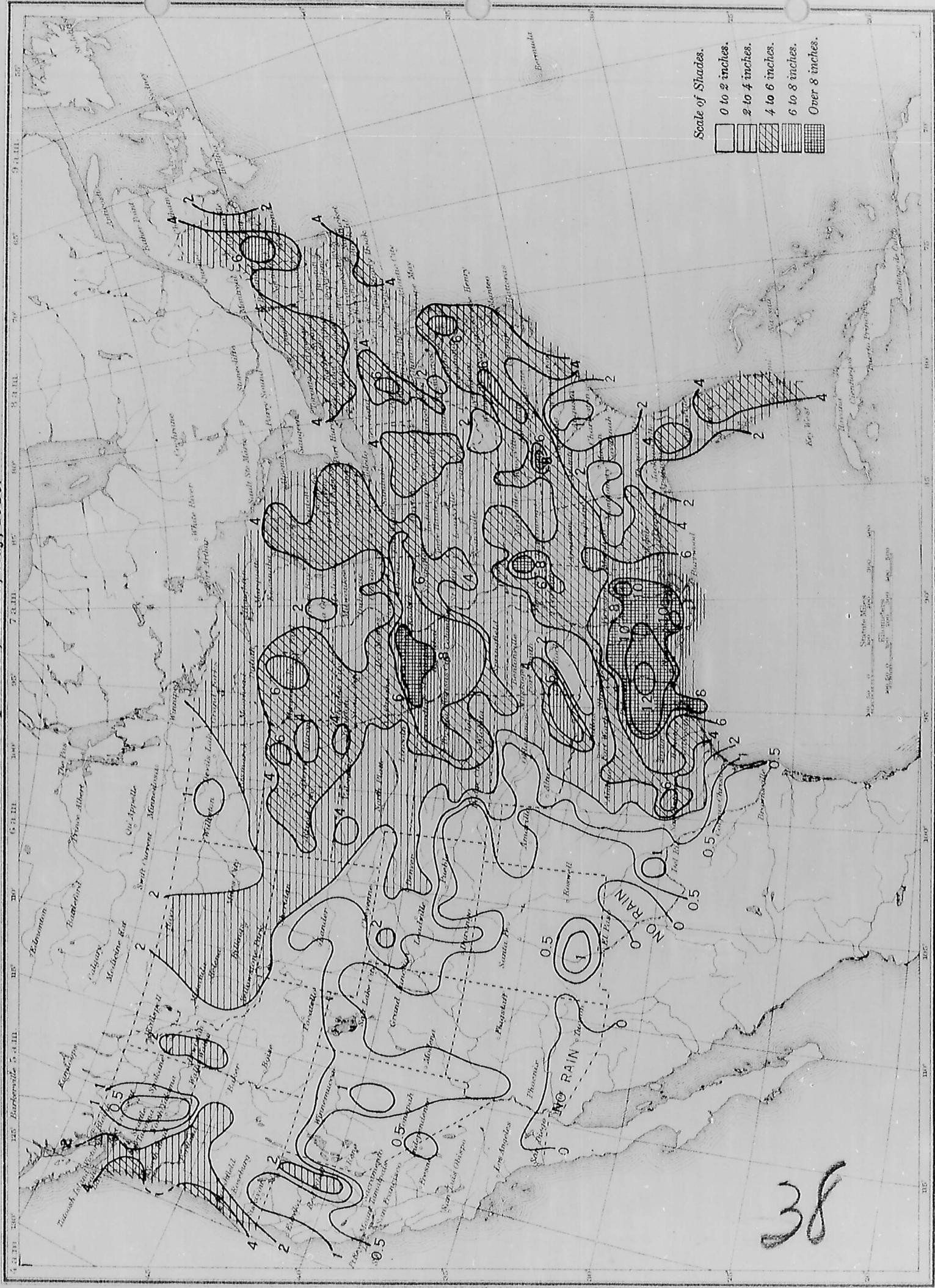
Daily precipitation for May, 1816

Continued on page 46.

Daily temperatures for May, 1916.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
Blanding.....	Maximum 52	58	62	65	70	68	65	66	73	68	66	65	56	55	57	55	61	59	59	54	60	61	64	62	61	59	64	63	63	65	71	62.2		
	Minimum 37	39	32	40	48	49	48	49	47	44	42	38	42	32	27	30	43	41	45	46	45	32	38	44	42	51	37	32	37	39	43	42	40	40.3
Corinne.....	Maximum 60	65	72	79	80	88	80	71	55	56	60	55	58	62	65	75	73	64	58	78	57	57	60	61	68	75	78	72	68.3					
	Minimum 27	35	31	41	46	58	40	33	44	22	30	30	34	35	24	29	26	25	40	44	30	34	32	38	30	39	40	41	33	47	40	35.3		
Deseret.....	Maximum 67	68	78	85	81	83	70	85	84	62	64	58	55	63	78	75	75	54	65	72	65	55	62	67	70	76	78	75	70.4					
Duchesne.....	Maximum 65	57	73	78	78	83	74	82	81	62	60	68	56	51	58	63	68	67	64	69	62	68	67	57	63	72	70	77	76	75	68.1			
	Minimum 22	38	26	37	52	47	48	31	55	29	32	27	28	22	23	26	39	43	45	44	36	40	33	42	25	30	32	36	43	47	42	36.1		
Elberta.....	Maximum 22	40	25	38	38	38	47	34	38	82	28	28	35	26	23	23	31	33	40	46	44	43	28	50	35	29	28	37	32	30	28	33.8		
	Minimum	
Emery.....	Maximum 60	72	75	80	81	85	85	83	81	70	66	65	62	55	56	59	65	71	77	78	76	77	78	70	71	75	76	77	78	76	75	72.7		
	Minimum 20	32	22	40	42	49	38	32	30	32	30	31	28	22	22	28	32	23	38	37	40	31	35	38	40	32	36	33	32	34	32	36	33.4	
Fillmore.....	Maximum 67	69	78	87	84	85	75	87	82	66	63	66	59	58	63	78	78	78	64	64	74	71	76	78	81	83	82	78	72	75	72.5			
	Minimum 27	32	40	52	50	45	45	47	42	26	27	26	28	27	27	34	45	52	42	41	39	41	32	41	31	34	33	37	45	50	51	38.4		
Ft. Duchesne.....	Maximum 68	67	72	73	82	85	75	82	84	71	70	69	62	55	57	53	73	72	71	73	72	67	70	74	69	68	72	75	72	80	78	71.2		
	Minimum 21	41	25	27	35	54	30	31	33	34	24	25	29	23	23	21	31	34	42	33	31	40	31	34	39	30	30	40	32	34	49	32.5		
Fruitland.....	Maximum 61	64	70	76	75	80	81	80	72	75	70	71	68	68	67	70	71	67	61	68	70	71	70	71	73	73	73	73	73	73	70	70	70.7	
	Minimum 27	30	19	35	36	34	33	24	24	26	32	31	33	21	15	24	23	29	36	40	36	35	20	33	21	22	30	32	33	35	23	29.1		
Government Creek.....	Maximum 62	62	75	80	80	84	75	80	77	59	57	56	52	51	57	69	70	73	67	60	68	64	55	50	58	60	68	72	77	72	79	66.7		
	Minimum 27	37	33	49	51	45	39	34	45	24	27	22	28	25	25	32	37	42	40	48	34	34	32	29	31	33	39	45	44	36	*35.4			
Green River.....	Maximum	
Henefer.....	Maximum
	Minimum 19	29	23	31	36	31	41	25	16	21	21	28	17	17	26	32	31	41	41	27	38	27	40	25	29	31	33	34	30	28	27	28.7		
Ibapah.....	Maximum 69	67	80	82	78	83	66	81	73	52	57	54	53	52	69	71	69	64	65	74	62	55	57	61	72	78	77	77	77	77	68	66.1		
	Minimum 21	26	26	32	38	39	35	22	41	12	19	17	14	15	22	24	22	28	36	42	31	31	34	24	25	28	30	35	31	29	28.1			
Kelton.....	Maximum 70	68	71	80	79	85	60	65	63	63	52	56	55	58	62	69	72	70	58	68	68	56	58	55	62	63	70	73	77	65	65.5			
	Minimum 29	34	29	44	44	40	36	30	43	23	29	28	21	27	24	27	37	44	44	39	32	35	31	34	29	34	32	35	33.5					
La Sal.....	Maximum 68	54	61	71	76	76	77	72	64	72	64	62	54	58	61	61	61	61	48	57	59	63	61	61	54	61	67	66	68	67	62.8			
	Minimum 27	34	29	37	41	59	62	68	47	50	54	38	32	36	44	49	52	39	46	34	33	38	41	34	37	39	37	36	41	40	*41.0			
Leeds (near) §§.....	Maximum	
Lemay.....	Maximum 70	70	70	76	75	80	72	68	63	58	50	57	60	60	65	70	73	70	61	60	68	62	61	60	67	70	76	80	75	70	66.7			
	Minimum 43	46	47	53	55	55	48	46	46	33	35	34	36	40	43	40	46	48	45	42	40	45	42	42	46	48	50	50	54	44.4				
Levan.....	Maximum 63	62	52	73	80	84	60	70	60	58	60	61	46	52	67	70	70	61	60	68	63	60	57	59	62	70	74	75	75	75	65.0			
	Minimum 27	40	32	31	41	64	47	36	48	28	34	28	32	26	28	29	43	41	44	40	37	41	36	42	38	30	31	37	40	37.0				
Logan.....	Maximum 63	63	79	69	67	72	70	67	65	57	45	46	49	58	63	70	69	70	61	67	64	54	50	54	60	70	69	69	62	72.7				
	Minimum 81	84	45	50	50	62	58	59	42	16	20	28	29	29	41	47	46	44	38	39	34	35	36	40	40	41	42	45	44	*40.0				
Low §§.....	Maximum	
Lucin.....	Maximum 73	72	78	80	78	87	84	75	75	56	55	57	58	57	61	66	73	71	67	67	67	60	66	60	56	56	58	68	75	82	80	69	68.1	
	Minimum 32	40	31	43	45	38	35	30	22	27	26	25	30	28	25	40	45	40	38	38	32	36	34	31	36	34	32	34	31	34	34.8			
Manila.....	Maximum 45	63	65	70	78	78	78	78	78	78	64	62	67	55	58	61	67	71	70	63	63	64	66	65	67	65	74	74	74	64	64.1			
	Minimum 20	18	29	34	40	44	40	49	38	35	35	25	29	24	24	30	20	15	20	27	30	40	39	37	36	36	34	33	36	34.8				
Manti.....	Maximum 62	64	72	76	78	81	74	81	73	63	62	63	58	57	62	72	74	72	68	68	67	67	67	68	68	68	68	68	68	68.6				
	Minimum 24	34	31	37	44	44	47	40	39	37	36	39	27	25	26	30	27	24	22	28	42	42	38	42	38	37	36	34	33	34.8				
Meadowville.....	Maximum 61	66	70	74	74	79	69	78	66	56	50	52	49	47	47	54	62	70	66	61	55	63	67	64	62	62	62	62	62	62.0				
	Minimum 24	28	39	44	38	36	38	28	36	19	21	21	24	25	22	21	22	23	23	36	43	40	35	34	34	34	34	34	34	34.0				
Millford.....	Maximum 67	69	74	87	73	74	84	74	70	61	66	58	55	63	68	75	75	75	67	62	64	67	68	74	71	71	78	72	69	69.7				
	Minimum 22																																	

Total Precipitation, Inches, May, 1916.



Daily precipitation for May, 1916—Continued from page 43.

Stations.	Day of month.																														Total.				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Randolph																				.55	.05											0.65			
Reed																																	0.55		
Revere																				.05	.01	.46	.03										0.55		
Richfield																				T.															
Richmond	||																				.11	.02	.05	T.	.28	.43	.04						0.93		
Riverdale																				.28														0.83	
St. George	(C)																																		
Saltair																																			
SALT LAKE CITY ***																																			
Santaquin																																			
Scipio																																			
Scofield	(C)																			.01															0.11
Silver City																																			
Silver Lake †																																			
Snake Creek ||																					T.														0.25
Snowville																					.05	.04												0.09	
Spanish Fork																					T.														0.42
Springdale	(C)																																		0.27
Standrod																																			0.96
Sunnyside	(C)																			T.															1.29
Teasdale	(C)																			T.															0.03
Thistle																				.04														0.14	
Thompson	(C)																				T.														T.
Tooele																																			0.81
Tremonton	||																																		0.69
Tropic	(C)																																		0.13
Trout Creek Ranger	(C)																																		
University of Utah																																			0.57
Utah Experiment Station																																			1.00
Vernal	(C)																																		0.00
Victor	(C)																																		0.00
Watson (near)	(C)																																		0.31
Wendover																																			0.26
Whiskey Creek ||																																			0.57
Winder																																			0.41
Woodruff																																			
Woodside	(C)																																		0.03

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

*** Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

* Precipitation included in the next following measurement. † Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow. All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

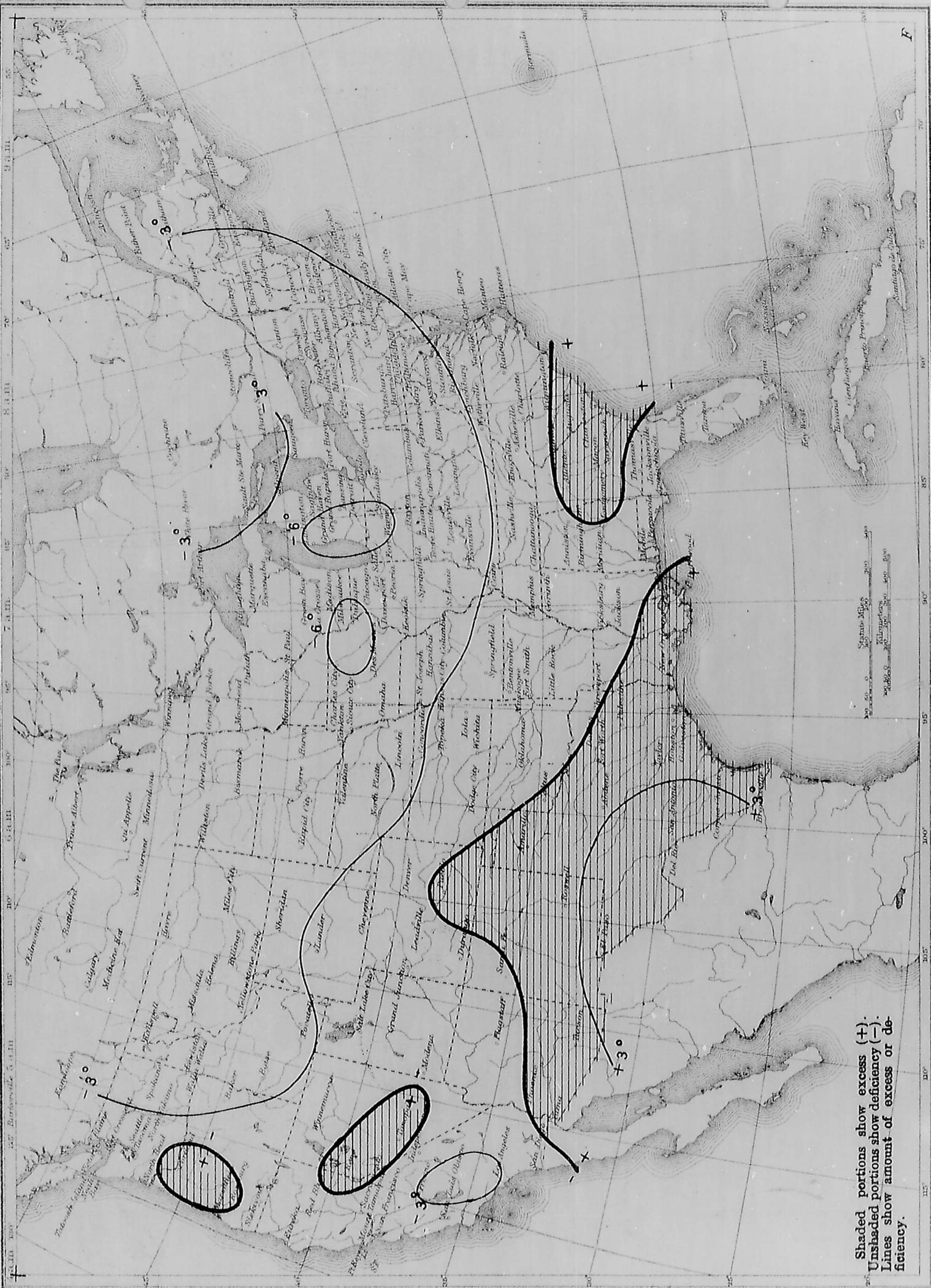
JUNE, 1916

BY
ALFRED H. THIESSEN
METEOROLOGIST



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
JULY 18, 1916.

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Shaded portions show excess (+).
 Unshaded portions show deficiency (-).
 Lines show amount of excess or deficiency.

F

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Meteorologist.

VOL. XVIII. SALT LAKE CITY, UTAH, JUNE, 1916. No. 6.

GENERAL SUMMARY.

June, 1916, was a very windy, dry and cool month. It was the driest June since 1912, and much drier than June of last year. Although the temperature averaged below normal, it was 1.4° higher than the average for June, 1915. The wind was especially detrimental, drying the newly irrigated fields. It was not a favorable month for crops, the growth being very slow, especially with the dry-farm products. Alfalfa made poor progress, and in some places, due to frost, it had to be cut early in the month. At the end of the month, however, haying was in progress in most of the valleys, but the crop was estimated at only 75% of the average. Range grass dried badly, but there were no reports of stock being in poor condition as a result. Wheat was ripening fast at the end of the month, and in some places rye was being harvested. Only a fair crop of currants and gooseberries was secured. At about the time of the summer solstice which occurred this year on June 21st, a cool spell was experienced, and some stations reported their lowest temperatures for the month on that or adjacent dates. A snowstorm and a minimum temperature of 22° occurred at the Utah Experiment Station on the 22d.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 29.82 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.13 inches at Salt Lake City on the 22d. The lowest was 29.82 inches at Modena on the 20th.

TEMPERATURE.

The monthly mean temperature for the State was 62.2° , which is 2.2° below normal. Of the 32 stations with records of 10 years or more, only 7 reported monthly mean temperatures above normal, and the remainder below. The greatest plus departure was 1.9° at Emery, whose monthly mean was 61.8° ; and the greatest minus departure was 9.2° at Kelton, whose monthly mean temperature was 61.6° . The lowest temperatures occurred usually on the 1st, 2d, 3d and 22d, and almost every station reported temperatures below freezing during some period of the month. The lowest temperature was 20° on the 2d, 7th and 23d at Scofield. The warmest period of the month was from the 14th to the 18th. The highest temperature observed was 107° at St. George on the 16th, and most stations, except those at the higher elevations, reported maximum temperatures of 90° or above.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 42 per cent, and at 6 p. m. 21 per cent. At Modena at 6 a. m. it was 40 per cent, and at 6 p. m. 10 per cent.

PRECIPITATION.

The precipitation for the State averaged 0.22 inch, which is 0.28 inch below normal. The greatest local monthly amount was 1.25 inches at Clarkston. Thirty-nine stations reported an entire absence of precipitation, while fourteen reported only

traces. All stations having a record of ten years or more reported amounts below normal, except Farmington, Logan and Tooele, where slightly more than normal amounts were recorded. Scattered showers fell on the 1st, but more general showers fell on the 21st. The greatest 24-hour amount was 0.81 inch at Millville on the 21st. Snow fell at 9 stations, the greatest monthly amount being 2 inches at Meadowville.

WIND.

The prevailing direction of the wind for the State was from the southwest. The average velocity at Salt Lake City was 8.4 miles per hour; the highest 35 miles per hour from the north on the 20th; and the prevailing direction from the northwest. At Modena the average velocity was 12.1 miles per hour; the highest 44 miles per hour from the south on the 20th; and the prevailing direction from the west.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 89 at Salt Lake City, and 94 at Modena.

For the State the average number of clear days was 23; partly cloudy, 5; and cloudy, 2.

CORRECTIONS.

May, 1916: Brigham City, date of highest temperature should be 6th; Duchesne, monthly mean temperature should be 51.0° ; Logan, highest temperature and date should be 73° on the 3d; Manila, monthly mean temperature should be 45.9° ; Midlake, monthly mean temperature should be 57.4° .

COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Average precipitation.	Average snowfall.	Average No. of days.			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891									
1892	65.0	116	22	0.46	0.1	3	22	0	NW.
1893	64.0	105	19	0.02	0	0	17	10	SW.
1894	61.5	108	15	0.84	0.8	4	9	3	SW.
1895	62.8	106	18	0.43	0	3	18	9	SW.
1896	70.0	112	21	0.20	0	2	16	11	SW.
1897	63.2	104	20	0.26	0	2	16	10	SW.
1898	65.2	110	22	0.78	0	3	20	7	SW.
1899	64.0	110	21	0.58	0	3	19	6	SW.
1900	69.7	111	30	0.16	0	1	22	6	SW.
1901	63.3	109	19	0.25	T.	1	20	6	SW.
1902	66.9	114	21	0.17	T.	1	23	5	SW.
1903	65.7	110	27	0.47	0	3	17	8	SW.
1904	63.3	102	21	0.47	T.	3	17	8	W.
1905	64.7	110	23	0.18	T.	1	21	7	SW.
1906	62.2	106	22	0.59	T.	2	20	6	SW.
1907	58.8	105	16	1.22	0.3	7	13	10	SW.
1908	59.6	104	20	1.09	0.1	6	16	8	SW.
1909	66.2	110	20	0.14	T.	1	20	7	SW.
1910	67.9	110	27	0.38	0	1	21	6	S.
1911	64.8	104	28	0.96	T.	5	13	10	SW.
1912	64.7	104	18	0.56	0	4	13	11	SW.
1913	64.0	110	23	1.57	T.	7	12	9	SW.
1914	62.6	104	11	2.03	1.4	8	14	8	S.
1915	60.8	108	19	0.73	T.	3	20	6	S.
1916	62.2	107	20	0.22	0.1	1	23	5	SW.
1891-1916	64.1	116	11	0.59	0.1	3	17	9	SW.

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.0 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1916.	1st 15th	+4.5 +4.6	+4.7 +5.0	+5.2 +5.4	+5.6 +6.0	+6.0 +6.0	+5.9 +5.8						

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CLIMATOLOGICAL DATA: UTAH SECTION.

JUNE, 1916.

Climatological data for June, 1916.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, inches.			Number of days.			Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total Snowfall, unmelted.	With precipitation 0.1 inch or more.	Clear.	Partly cloudy.			
Alton.	Kane.	7,000	1	59.6	-	85	16†	25	1	47	0.00	-0.45	0.00	0	0	23	7	0	sw.	
Beaver.	Beaver.	6,000	11	58.9	-2.6	89 ^b	17	27 ^b	22	53 ^b	0.00	-0.25	0.00	0	0	24 ^b	4 ^b	0 ^b	s.	
Black Rock.	Millard.	4,872	11	62.5	-0.5	96	16	30	2†	57	0.00	-0.25	0.00	0	0	13	17	0	sw.	
Blanding.	San Juan.	6,000	8	62.4	-	89	17	40	1†	34	0.00	-0.00	0.00	0	0	30	0	0	sw.	
Bluff.	San Juan.	4,200	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Brigham City.	Boxelder.	4,305	3	63.8	-	95 ^a	16	35	12†	50 ^a	0.67	-	0.89	0	0	3	-	-	-	
Burrville.	Sevier.	6,800	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Castle Dale.	Emery.	5,500	10	65.4	+1.8	90	15†	38	9†	43	0.00	-0.63	0.00	0	0	26	3	1	sw.	
Cedar City.	Iron.	5,750	10	67.0	+0.9	93	16	34 ^c	22	41 ^c	0.00	-0.57	0.00	0	0	27	3	0	sw.	
Center. ^{††}	Tooele.	4,250	4	-	-	97	16	-	-	-	0.48	-	0.25	0	0	2	23	4	3	n.
Corinne.	Boxelder.	4,240	45	63.2	-7.2	95	17	27	13	53	0.55	-0.03	0.55	T.	0	1	23	4	3	sw.
Deseret.	Millard.	4,541	20	63.7	-1.6	97	17	32	2	61	T.	-0.34	T.	0	0	26	1	3	n.	
Duchesne.	Duchesne.	5,515	8	60.8	-	89	17†	31	2†	47	T.	-	T.	0	0	19	10	1	w.	
East Portal. ^{††}	Wasatch.	7,606	3	50.0	-	79	17	22	2	49	T.	-	T.	0	0	19	11	0	sw.	
Elberta.	Utah.	4,650	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	reclamation Service.	
Emery.	Emery.	6,200	14	61.8	+1.9	88	11†	30	1†	49	0.00	-0.45	0.00	0	0	6	12	12	sw.	
Farmington.	Davis.	4,268	14	65.0	+0.3	96	17†	36	2	47	0.95	+0.12	0.60	0	0	27	2	1	sw.	
Fillmore.	Millard.	5,100	23	66.6	-1.2	95	16†	35	1	47	T.	-0.51	T.	0	0	1	21	4	3	sw.
Ft. Duchesne.	Uinta.	4,941	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Garrison.	Duchesne.	6,725	5	59.4	-	90 ^a	27	21 ^b	1	60 ^b	T.	-	T.	0	0	0	0	0	0	sw.
Government Creek. ^{††}	Boxelder.	4,248	8	63.8	-	97	16	35	21	50	0.68	-	0.29	0	0	5	23	4	3	s.
Green River.	Millard.	4,850	11	63.4	-	94 ^a	16	30 ^b	1	48 ^b	0.15	-	0.15	0	0	1	26	3	1	w.
Hanksville.	Tooele.	5,277	14	62.2	-1.1	93	17	32	22	41	0.45	-0.14	0.28	0	0	2	26	3	1	w.
Heber.	Wayne.	4,200	4	68.8	-	98	17	36	2	54	0.00	-	0.00	0	0	0	25	5	0	sw.
Heenefer.	Wasatch.	5,593	22	59.6	+0.3	91	17	30	2†	55	0.13	-0.43	0.08	0	0	2	26	4	0	s.
Ibapah.	Summit.	5,301	15	56.3	-2.3	89	17†	25	3	64	0.38	-0.42	0.16	T.	0	4	20	8	2	w.
Iosepa.	Tooele.	7,500	10	56.8	-	92	16	28	22	55	1.14	-	0.75	0.5	0	2	17	12	1	sw.
Kanab.	Tooele.	4,356	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Keeton.	Kane.	4,925	7	68.8	-	101	17	35	1	57	0.00	-	0.00	0	0	0	9	18	3	sw.
La Sal.	Boxelder.	4,230	35	61.6	-9.5	96	17	31	11†	52	0.22	-0.15	0.15	0	0	2	21	6	3	n.
Leeds (near). ^{††}	San Juan.	7,000	12	59.2	-2.0	83 ^d	29	34	1†	32 ^d	T.	-0.62	T.	0	0	0	29	0	1	sw.
Lehi.	Washington.	3,400	3	475.2	-	99 ^a	15	50 ^b	22	41 ^b	0.00	-	0.00	0	0	0	27	8	0	sw.
Lemay. ^{††}	Boxelder.	4,221	4	68.0	-	94	17	42	21†	34	0.10	-	0.10	0	0	1	22	7	1	n.
Levan.	Juab.	5,010	25	62.6	-1.8	89	17†	35	2	42	0.00	-0.52	0.00	0	0	0	22	8	0	sw.
Logan.	Cache.	4,507	24	63.2	-0.1	94	17	33	21	45	0.88	+0.11	0.45	0	0	4	25 ^a	2 ^a	2 ^a	sw.
Lone Tree. ^{††}	Uinta.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Low. ^{††}	Tooele.	4,602	4	67.1	-	97 ^a	17	34 ^b	21	44 ^b	0.65	-	0.65	0	0	1	24	5	1	nw.
Lower American Fork. ^{††}	Utah.	5,063	1	68.8	-	97	27†	35	22	42	0.15	-	0.15	0	0	1	22	6	3	n.
Lower Mill Creek. ^{††}	Salt Lake.	4,959	2	-	-	-	-	-	-	-	0.82	-	0.45	0	0	4	21	6	3	n.
Lucin.	Boxelder.	4,504	8	62.8	-	95	16†	29	22	49	0.00	-	0.00	0	0	0	28	0	1	sw.
Manti.	Uinta.	6,225	5	57.3	-	95 ^a	17	28 ^b	2	50 ^b	0.15	-	0.15	0	0	1	20 ^a	6 ^a	1 ^a	nw.
Marysville.	Plute.	6,180	14	-	-	-	-	-	-	-	0.00	-0.33	0.06	T.	0	1	12	10	8	sw.
Meadowville. ^{††}	Rich.	6,200	14	57.0	+0.5	88	27	28	11	51	0.85	0.00	0.61	2.0	3	27	1	2	nw.	
Midlake. ^{††}	Boxelder.	4,235	4	67.6	-	85	17†	42	21	38	0.10	-	0.05	0	0	2	14	15	1	sw.
Midway.	Salt Lake.	4,365	8	64.8	-	99	17	34	2	51	0.59	-	0.34	0	0	2	26	3	1	s.
Millford.	Beaver.	4,962	7	61.5	-	96	16	32	2	64	0.00	-	0.00	0	0	0	22	8	0	sw.
Moab.	Grand.	4,000	26	71.0	-1.1	100	26	42	3	47	0.00	-0.29	0.00	0	0	0	21	9	0	sw.
Modena.	Iron.	5,479	14	63.0	-0.2	91	16	32	2	47	0.01	-0.39	0.01	0	0	0	21	5	0	w.
Monticello.	San Juan.	7,050	7	60.2	-	84	17	32	1	35	0.00	-	0.00	0	0	0	28	2	0	sw.
Morgan.	Sanpete.	5,068	10	60.9	-	87	27	28	23	48	T.	-	T.	T.	0	0	21	8	1	sw.
Moroni.	Rich.	6,000	7	-	-	-	-	-	-	-	0.00	-	0.00	0	0	0	31	8	1	sw.
Mosida.	Boxelder.	4,510	3	62.8	-	92	27	34	2	42	0.14	-	0.06	0	0	0	21	8	1	sw.
Mountain Home.	Salt Lake.	6,000	2	59.8	-	85 ^a	10	32 ^b	2	41 ^b	0.02	-	0.02	0	0	1	19 ^a	5 ^a	1 ^a	w.
Nephil (near).	Juab.	5,119	10	61.4	-	94	17	30	2	53	0.00	-	0.00	0	0	0	25 ^a	2 ^a	2 ^a	n.
Oak City.	Millard.	4,900	8	67.9	-	94	17†	36	22	48	T.	-	T.	0	0	0	23	4	3	sw.
Ogden.	Weber.	4,810	44	64.9	-6.2	99	17	35	1	51	0.55	-0.13	0.37	0	0	3	27	2	1	s.
Panguitch.	Garfield.	6,500	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Park City.	Garfield.	7,000	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Parowan.	Summit.	7,000	10	64.4	+0.2	89	16	30	21	46	T.	-0.22	T.	0	0	0	26	2	2	sw.
Pine View. ^{††}	Iron.	6,181	1	63.0	-	93	16	32	14	58	0.00	-	0.00	0	0	0	26	4	0	sw.
Pinto.	Summit.	6,336	3	-	-	-	-	-	-	-	0.00	-	0.00	0	0	0	0	0	0	sw.
Washington.	Washington.	5,907	17	57.5	-1.7	91	16	27	3	52	0.00	-0.25	0.00	0	0	0	30	0	0	s.
Price.	Carbon.	5,557	4	65.8	-	89	17†	34	7	45	0.00	-	0.00	0	0	0	20	9	1	sw.
Provo.	Utah.	4,532	21	62.0	-3.0	94	18	31	2	50	0.21	-0.52	0.18	0	0	2	20	9	1	sw.
Richfield.	Sevier.	5,350	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	sw.	
Riverdale. ^{††}	Weber.	4,310	2	63.4	-	94	17†	36	11†	50	0.39	-	0.39	0	0	1	19	10	1	s.
St. George.	Washington.	2,880	22	-	-	107	16	32	22	45	0.00	-0.09	0.00	0	0	0	29	1	0	sw.
Salt Lake City.	Salt Lake.	4,220	11	66.0	-0.6	90	27	44	2†	56	0.88	-0.61	0.44	0	0	2	22	8	0	sw.
Santaquin.	Salt Lake.	4,360	41	65.9	-2.4	96	16	40	22	35	0.66	-0								

JUNE, 1916.

CLIMATOLOGICAL DATA: UTAH SECTION.

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Daily precipitation for June, 1916.

Stations.	Day of month.																														Total.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Alpine	T.																																0.20
Alton	(C)																																0.00
Beaver																																0.00	
Beaver Creek Nursery	.09																															0.12	
Belknap Ranger Station																																0.00	
Bennmore	.04																															0.21	
Big Plains	(C)																															0.00	
Black Rock																																0.00	
Blanding	(C)																															0.00	
Bluff	(C)																															0.00	
Brigham City																																0.67	
Burrville																																0.00	
Canaan	(C)																															0.00	
Castle Dale	(C)																															0.00	
Castle Rock																																0.00	
Cedar City																																0.00	
Cedar Fort																																0.00	
Center	.23																															0.48	
Clarkston	.05																															1.25	
Corinne																																0.55	
Cottonwood Nursery	.38																															0.77	
Deep Creek																																0.00	
Desret																																T.	
Duchesne	(C)																															T.	
East Portal	(C)																															T.	
Elberta																																0.00	
Elkhorn	(C)																															T.	
Emery	(C)																															T.	
Enterprise																																0.00	
Eriksen	.10																															0.00	
Farmington																																0.29	
Fillmore																																0.95	
Ft. Duchesne	(C)																															T.	
Fruitland	(C)																															0.00	
Garland	.07																															T.	
Garrison																																0.68	
Government Creek	.28																															0.15	
Grantsville	.65																															0.45	
Green River	(C)																															1.17	
Grouse Creek																																0.00	
Hanksville	(C)																															0.00	
Hatch																																0.00	
Hayden	(C)																															T.	
Heber	.08																															0.00	
Henefer	.13																															0.00	
High Line City Creek	.42																															0.38	
Howell																																1.02	
Hurricane	(C)																															0.00	
Ibapan	.75																															0.00	
Indian Farm	.25																															1.14	
Josepa																																0.55	
Joseph																																0.00	
Jozella Ranch																																T.	
Junction																																0.00	
Kanab	(C)																															0.00	
Kanosh																																0.00	
Keeton																																0.00	
Lake View Farm																																0.22	
La Sal	(C)																															0.04	
Leeds, (near)	(C)																															T.	
Lehi	.08																															0.00	
Lemay																																0.28	
Levan																																0.10	
Logan																																0.00	
Lone Tree	(C)																															0.88	
Low																																0.00	
Lower American Fork	.15																															0.65	
Lower Mill Creek	.10	.22																														0.82	
Lucin																																0.00	
Manti	(C)																																

Total Precipita. in, Inches, June, 1916.



Daily precipitation for June, 1916—Continued from page 51.

Stations.	Day of month.																														Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Randolph																																	0.48
Reed																																0.00	
Revere																																0.62	
Richfield																																1.03	
Richmond	11																															0.39	
Riverton																																0.00	
St. George	(C)																															0.00	
Saltair	.44																															0.88	
SALT LAKE CITY **	.21																															0.66	
Santaquin	.30																															0.35	
Scipio																																0.05	
Scofield	(C)																															0.01	
Silver City																																0.24	
Silver Lake †																																0.06	
Snake Creek ‡	.10																															0.17	
Snowville																																0.66	
Spanish Fork	.07																															0.07	
Springdale	(C)																															0.00	
Standrod																																0.21	
Sunnyside	(C)																															0.00	
Teasdale	(C)																															0.13	
Thistle																																0.19	
Thompson	(C)																															0.00	
Tooele	.38																															1.03	
Tremonton	11																															0.63	
Tropic	(C)																															0.00	
Trout Creek Ranger	(C)																															0.01	
University of Utah																																0.87	
Utah Experiment Station																																0.18	
Vernal	(C)																															0.00	
Victor	(C)																															0.00	
Watson (near)	(C)																															T	
Wendover																																0.14	
Whiskey Creek	11																															0.00	
Winder																																0.00	
Woodruff																																	
Woodside	(C)																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.

† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.

** Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

* Precipitation included in the next following measurement. † Separate dates of falls not recorded. T. Indicates Trace, or less than 0.01 inch of rain or melted snow. All stations are in the Great Basin except those marked (C) which are in the Colorado River drainage area.

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU
CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

UTAH SECTION

JULY, 1916

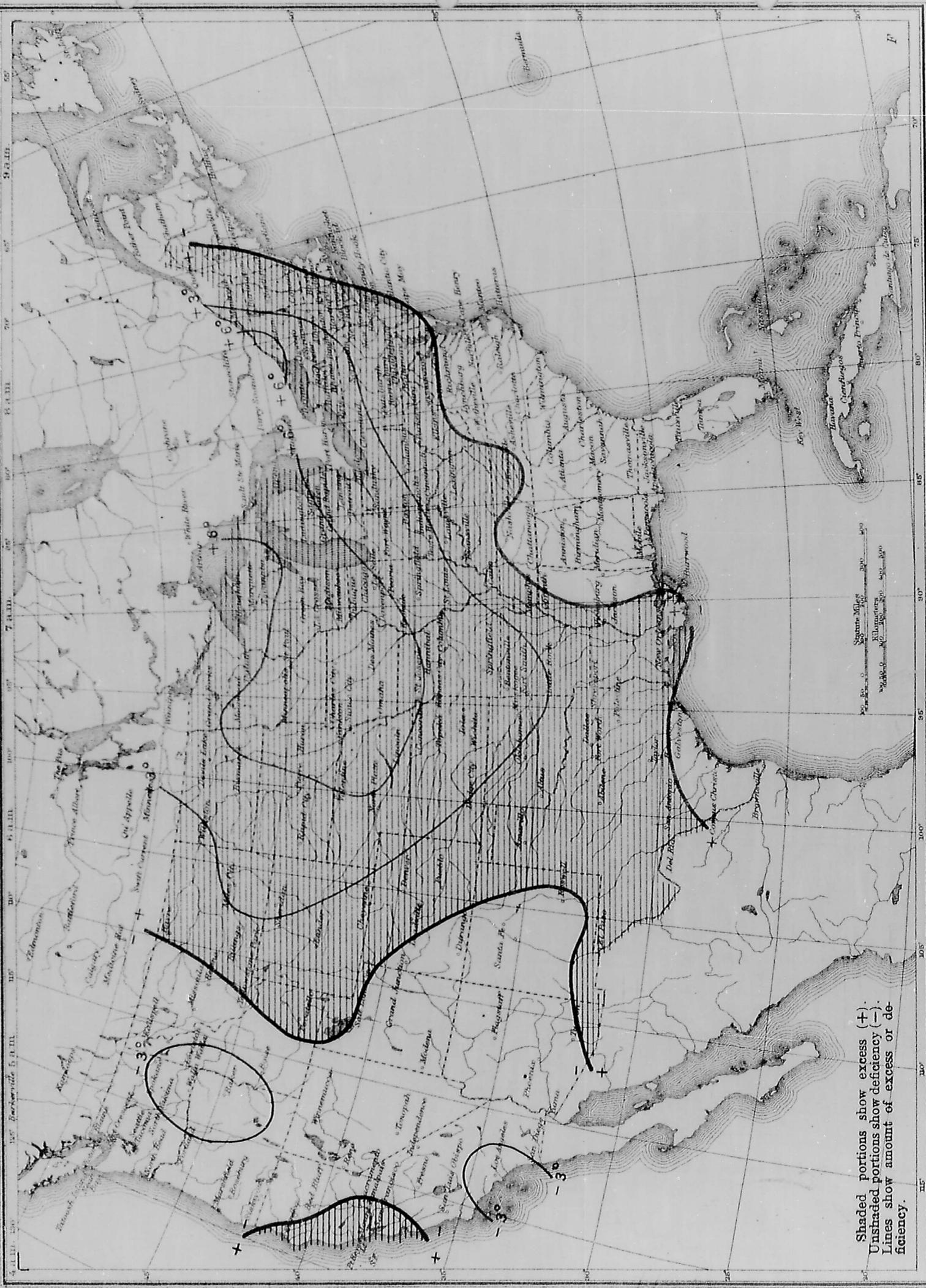
BY
ALFRED H. THIESSEN
METEOROLOGIST



SALT LAKE CITY, UTAH
WEATHER BUREAU OFFICE
AUGUST 16, 1916.

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Departure of one Mean Temperature from the Normal, 1871-1880.



Shaded portions show excess (+).
Unshaded portions show deficiency (-).
Lines show amount of excess or deficiency.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

UTAH SECTION.

ALFRED H. THIESSEN, Meteorologist.

VOL. XVIII. SALT LAKE CITY, UTAH, JULY, 1916. No. 7.

GENERAL SUMMARY.

July was the most favorable month for crop growth since the beginning of the growing season. The temperatures averaged slightly below normal, but higher than July of last year. The drought of the two preceding months was broken, the precipitation averaging about 30% above normal and over four times the July average of last year. These conditions had a great beneficial effect on farm products.

The first half of the month was windy, and while there were scattered showers, the ranges became more dry, but cattle were reported in good condition. Haying was in progress at many places, and wheat and rye harvesting had begun, but these latter were light everywhere and nearly a failure in places. General rains fell in the last half of the month greatly benefiting ranges, dry-farm grain, alfalfa, beets, potatoes and other crops. Heavier rains during the last week of the month caused several floods, damaging irrigating canals and crops, especially hay which was down. At the end of the month harvesting of grain was general and much threshing was done. The second crop of alfalfa was being cut by the end of the month, and most correspondents report this as superior to the first crop, but there was some damage due to weevils and grasshoppers. The berry crop was harvested, and large fruits were ripening, but the crop is light.

PRESSURE.

The monthly mean atmospheric pressure for the State, reduced to sea level, was 29.86 inches, obtained from data at Salt Lake City and Modena.

The highest was 30.11 inches at Salt Lake City on the 19th. The lowest was 29.45 inches at Salt Lake City on the 2d.

TEMPERATURE.

The monthly mean temperature for the State as determined from 82 stations was 70.4° , which is 0.5° below normal, but above the average of July, 1915. Of the 36 stations having normals, 18 reported mean monthly temperatures above, 17 below, and one just normal. The greatest plus departure was 6.6° at Park City, whose monthly average was 70.8° ; while the greatest minus departure was 6.9° at Kelton, whose monthly average was 72.0° . The minimum temperatures occurred usually on the first four days of the month, the lowest being 27° at Scofield on the 4th; and the maximum temperatures were reported on various dates after the 4th, the highest being 108° at St. George on the 21st.

HUMIDITY.

At Salt Lake City the mean relative humidity at 6 a. m. was 44 per cent, and at 6 p. m. 30 per cent. At Modena at 6 a. m. it was 59 per cent, and at 6 p. m. 31 per cent.

PRECIPITATION.

The precipitation for the State averaged 1.45 inches, which

is 0.45 inch above normal. Of 37 stations having ten years or more record, there were 11 with monthly amounts below normal. There were many stations that reported unusually large amounts for July, among which may be mentioned 4.72 inches at both Alton and Modena, and 3.96 inches at Monticello. The greatest 24-hour amount was 2.35 inches at Cottonwood-Sevier. Showers occurred on the 7-9th, 13-16th, and 24-28th, the heaviest occurring during the last period.

WIND.

The prevailing direction of the wind for the State was from the south. The average velocity at Salt Lake City was 8.7 miles per hour; the highest 50 miles per hour from the southwest on the 24th; and the prevailing direction from the southeast. At Modena the average velocity was 10.1 miles per hour; the highest 48 miles per hour from the south on the 2d; and the prevailing direction from the southwest.

SUNSHINE AND CLOUDINESS.

The monthly percentage of possible sunshine was 83 at Salt Lake City, and 81 at Modena.

For the State the average number of clear days was 15; partly cloudy, 9; and cloudy, 7.

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Average precipitation.	Average snowfall.	Average No. of days.			Prevailing wind.
	Mean.	Highest.	Lowest.			Rainy (0.01 inch or more).	Clear.	Partly Cloudy.	
1891									
1892	72.8	110	27	0.28	0	2	9	4	SW.
1893	70.8	110	24	0.79	0	3	18	3	SW.
1894	70.4	109	26	0.71	0	5	13	15	SW.
1895	70.0	110	33	0.57	0	4	16	10	SW.
1896	72.0	111	33	1.81	0	7	13	11	SW.
1897	68.7	110	23	0.55	0	4	17	11	SW.
1898	73.4	115	28	0.35	0	2	21	8	SW.
1899	73.3	107	30	0.66	0	4	16	10	SW.
1900	72.6	111	30	0.03	0	1	23	6	SW.
1901	75.5	115	27	0.41	0	3	19	9	SW.
1902	68.4	112	17	0.32	T.	2	22	6	SW.
1903	71.0	110	27	0.52	0	3	20	7	SW.
1904	69.7	109	27	0.68	0	3	18	9	W.
1905	71.5	112	26	0.52	0	2	19	8	SW.
1906	71.6	110	30	0.85	0	5	15	11	SW.
1907	70.1	108	29	0.58	0	3	17	10	SW.
1908	71.5	108	30	0.96	0	5	14	11	SW.
1909	71.1	110	30	1.17	0	5	18	7	SW.
1910	73.2	110	32	1.07	0	5	12	12	S.
1911	69.5	106	21	0.96	0	5	14	11	SW.
1912	68.6	105	24	1.28	0	6	11	9	S.
1913	69.5	111	21	1.24	0	6	14	10	S.
1914	70.1	110	31	1.81	T.	8	10	11	SW.
1915	69.7	110	27	0.39	0	2	20	8	SW.
1916	70.4	108	27	1.45	0	6	15	9	S.
1891-1916	71.0	115	17	0.80	0	4	16	10	SW.

GREAT SALT LAKE WATER LEVEL RECORDS AT SALTAIR.

(Feet and tenths.)

Zero of gage is 4,212.9 feet above sea level.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1916	{ 1st +4.5	+4.7	+5.2	+5.6	+6.0	+5.9	+5.7						
	{ 15th +4.6	+5.0	+5.4	+5.7	+6.0	+5.8	+5.5						

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